

BUILD THE

MERCEDES-BENZ W 196 R



1:8
SCALE

ixoCOLLECTIONS

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MERCEDES-BENZ W 196 R

Guide to the instructions

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:

- 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.



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MERCEDES-BENZ W 196 R

The Mercedes-Benz W 196 R designed for the 1954 season met all the demands of the new Grand Prix formula decreed by the sport's governing body, the CSI (Commission Sportive Internationale): a capacity of 750 cc with or 2500 cc without supercharger, free choice of gas mixture, a racing distance of 300 kilometres or a minimum of three hours. The streamlined version was completed first because the Reims

Der für die Saison 1954 konstruierte Mercedes-Benz W 196 R erfüllt alle Bedingungen der neuen Grand-Prix-Formel der CSI (Commission Sportive Internationale): Hubraum 750 Kubikzentimeter mit oder 2500 Kubikzentimeter ohne Kompressor, beliebige Zusammensetzung des Treibstoffs, Renndistanz 300 Kilometer, mindestens jedoch drei Stunden. Zuerst fertig gestellt wird die Stromlinien-Version, weil das Auftaktrennen in Reims sehr

La Mercedes-Benz W 196 R, conçue pour la saison 1954, répondait à toutes les exigences de la nouvelle formule du Grand Prix décrétée par l'instance dirigeante du sport, la CSI (Commission Sportive Internationale) : une capacité de 750 cm³ avec ou 2500 cm³ sans compresseur, libre choix du mélange de gaz, une distance de course de 300 kilomètres ou un minimum de trois heures. La version simplifiée a été complétée en premier parce que la course de Reims qui

race kicking off the season permitted very high speeds. After that there was also a version with exposed wheels.

Fritz Nallinger was in charge of the project as a whole, ably assisted by Rudolf Uhlenhaut, Chief Engineer of the racing department since 1 September 1936, and after the war also head of the Car Testing department, who influenced the development decisively. And although, yet again, in the case of the W 196 R, the whole was much more than the sum of its parts, every component is worth mentioning: cutting-edge technology in terms of its era, in spite of the fact that, in some cases, there had been precedents in the history of motor sports. This silver masterpiece, of which 14 units including a prototype were built, drove its competitors to despair in the following two years. Its original streamlined body was both expedient and visually appealing. From the European Grand Prix on the Nürburgring in early August 1954 onward, however, an open-wheel (monoposto) version also formed part of the line-up. Its tubular space frame was light and sturdy, its suspension with torsion bars and a new single-joint swing axle at

hohe Geschwindigkeiten zulässt. Danach gibt es noch eine Variante mit freistehenden Rädern.

Mit der Leitung des Projekts betraut ist Fritz Nallinger. Maßgeblich die Entwicklung beeinflusst Rudolf Uhlenhaut, seit dem 1. September 1936 Technischer Leiter der Rennabteilung und nach dem Krieg zudem Leiter der Pkw-Versuchsabteilung. Und obwohl im Falle des W 196 R einmal mehr das Ganze viel mehr ist als die Summe der Teile, ist jedes Element der Rede wert, damalige Technologie vom Besten – auch wenn sich gelegentlich in den Tiefen der Vergangenheit Präzedenzfälle finden. Das Meisterstück in Silber, gefertigt in vierzehn Exemplaren inklusive eines Prototyps, lässt in den nächsten beiden Jahren die Konkurrenz verzagen. Der ursprüngliche Stromlinienaufbau ist zweckmäßig und schön zugleich, allerdings wird ab dem Großen Preis von Europa auf dem Nürburgring Anfang August 1954 eine Version mit frei stehenden Rädern (Monoposto) zur Standardausrüstung. Der Gitterrohrrahmen ist leicht und stabil, das Fahrwerk mit Drehstab-Aufhängung und einer neuen Eingelenk-Pendelachse hinten sowie riesigen turbogekühlten,

débutait la saison permettait des vitesses très élevées. Après cela, une version avec des roues apparentes a également été construite.

Fritz Nallinger était en charge du projet dans son entier, habilement assisté par Rudolf Uhlenhaut, ingénieur en chef du département des courses depuis le 1er septembre 1936 et, après la guerre, également chef du département des essais des voitures, qui a contribué de manière décisive au développement. Et bien que, encore une fois dans le cas de la W 196 R, l'ensemble était bien plus que la somme de ses parties, chaque composant mérite d'être mentionné : c'était la technologie de pointe pour cette époque, bien qu'il y avait eu, dans certains cas, des précédents dans l'histoire du sport automobile. Ce chef-d'œuvre argenté, dont 14 exemplaires y compris un prototype ont été construits, a poussé ses concurrents au désespoir au cours des deux années suivantes. Sa carrosserie aérodynamique originale était à la fois opportune et visuellement attrayante. À partir du Grand Prix d'Europe au Nürburgring au début du mois d'août 1954, une version à roues ouvertes (monoplace) fait également partie de l'équipe. Son cadre spatial tubulaire était léger et robuste, les suspensions avec des barres de torsion et un

the rear as well as the giant, turbo-cooled, and at first centrally arranged Duplex drum brakes were unconventionally good. The eight-cylinder in-line engine with direct injection and desmodromic valve control (1954: 256 hp (188 kW) at 8260 rpm, 1955: 290 hp (213 kW) at 8500 rpm) was installed into the space frame at an angle of 53 degrees to the right to lower the centre of gravity and reduce the frontal area. What's more, meticulous preparations for each individual race harked back to the glorious 1930s while at the same time anticipating the modern Formula One approach. But there was something else as well: so as to have the best cars in the world raced by the best drivers, racing manager Alfred Neubauer hired the – initially reluctant – superstar Juan Manuel Fangio, plus the up-and-coming Stirling Moss in 1955 – a virtually invincible pairing.

The W 196 R's track record was impressive indeed: nine victories and fastest laps, as well as eight pole positions in the twelve Grand Prix races in which it was entered, and, of course, Fangio's world champion's titles in 1954 and 1955. There was little room for improvement.

zunächst innen mittig untergebrachten Duplex-Trommelbremsen unkonventionell gut. Der Reihenachtzylinder mit direkter Einspritzung und desmodromisch gesteuerten Ventilen (1954: 256 PS/188 kW bei 8260/min, 1955: 290 PS/213 kW bei 8500/min) ist im Winkel von 53 Grad nach rechts geneigt in das Rahmenfachwerk eingebaut, um den Schwerpunkt abzusenken und die Stirnfläche zu verkleinern. Dazu kommen die minutiöse Vorbereitung und Durchführung des Projekts Grand Prix im Zeichen des Stuttgarter Sterns, die einerseits an die ruhmreichen 1930er Jahre erinnern und zugleich die Formel-1-Moderne vorwegnehmen. Und noch etwas: Damit das beste Fahrzeug auch vom besten Fahrer gesteuert wird, hat Rennleiter Alfred Neubauer den anfänglich widerstrebenden Top-Lenker Juan Manuel Fangio engagiert, dazu 1955 den vielversprechenden Stirling Moss – ein schier unschlagbares Duo.

Die Bilanz des W 196 R: neun Siege und schnellste Runden sowie acht Pole-Positions in den zwölf Grand Prix, an denen er teilnimmt, sowie die beiden Fahrertitel 1954 und 1955 für Fangio. Viel besser geht's nicht.

nouvel essieu oscillant à un seul joint à l'arrière ainsi que les freins à tambour duplex géants, turbo-cooling et d'abord disposés centralement, étaient exceptionnellement bons. Le moteur à huit cylindres en ligne à injection directe et commande de soupape desmodromique (1954: 256 ch (188 kW) à 8260 tr/min, 1955: 290 ch (213 kW) à 8500 tr/min) a été monté dans le cadre spatial à un angle de 53 degrés vers la droite pour abaisser le centre de gravité et réduire la zone frontale. En outre, les préparatifs méticuleux pour chaque course individuelle rappelaient les glorieuses années 1930 tout en anticipant l'approche moderne de la Formule Un. Mais il y avait aussi autre chose : pour que les meilleures voitures du monde soient conduites par les meilleurs pilotes, le directeur de course Alfred Neubauer a embauché la superstar Juan Manuel Fangio, qui était réticent au début, ainsi que le prometteur Stirling Moss en 1955 – un duo pratiquement invincible.

Le palmarès de la W 196 R est vraiment impressionnant : neuf victoires et les tours les plus rapides, ainsi que huit pole positions dans les douze courses de Grand Prix auxquelles elle a participé, et, bien sûr, les titres de champion du monde de Fangio en 1954 et 1955. On ne pouvait guère faire mieux !

Key specs

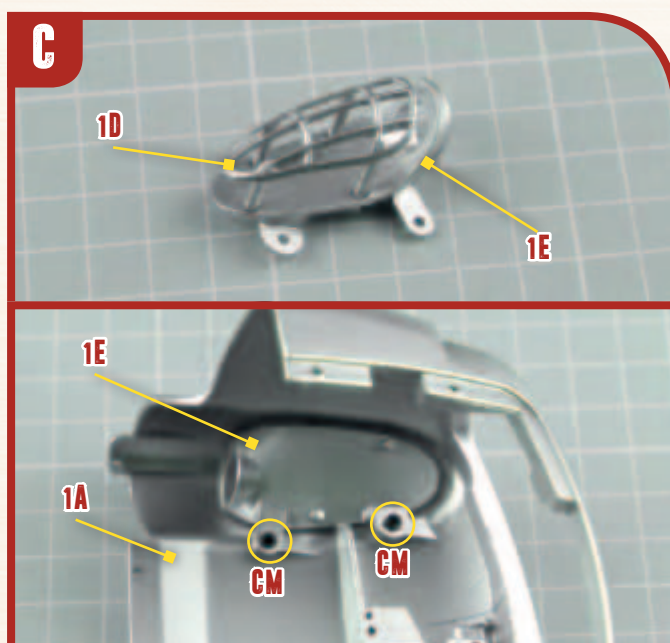
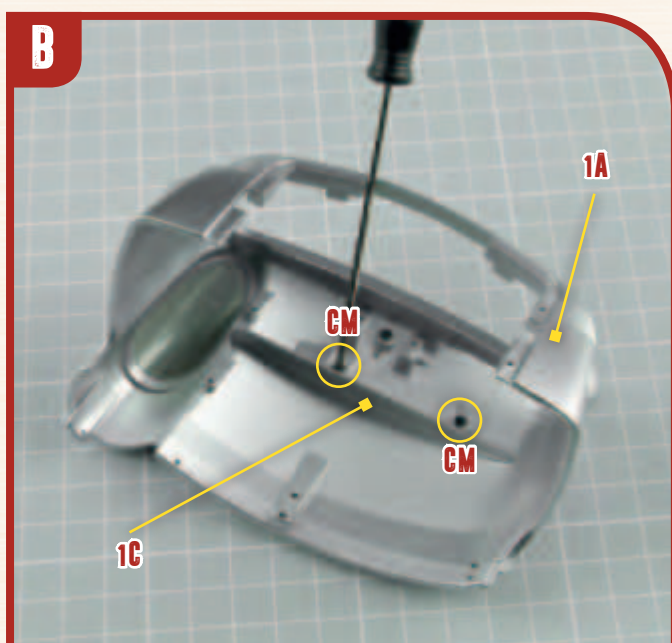
ENGINE TYPE	M 196 R
ENGINE LOCATION	Front, longitudinally mounted
CYLINDERS	8 in-line
VALVES	16
CUBIC CAPACITY	2496 cc
BORE X STROKE	76 x 68.8 mm
COMPRESSION RATIO	12:1
FUEL FEED	Direct fuel injection
LUBRICATION	Dry sump
ASPIRATION	Naturally aspirated
POWER	290 bhp at 8,500 rpm
TORQUE	247 Nm at 6,300 rpm
BODY	Aluminium body panels
CHASSIS	Steel tubular spaceframe
FRONT SUSPENSION	Double wishbones, torsion bars, telescopic shock absorbers
REAR SUSPENSION	Swing axle, longitudinal torsion bars, telescopic shock absorbers
STEERING SYSTEM	Worm-and-sector
BRAKES	Light alloy drums, all-round
DRIVE	Rear wheel drive
GEARBOX	5 speed, manual
CLUTCH PLATES	Dry, single plate
LENGTH	4,025 mm
WIDTH	1,625 mm
HEIGHT	1,040 mm
WHEELBASE	2,350 mm
WEIGHT	835 kg
TOP SPEED	Over 300 km/h



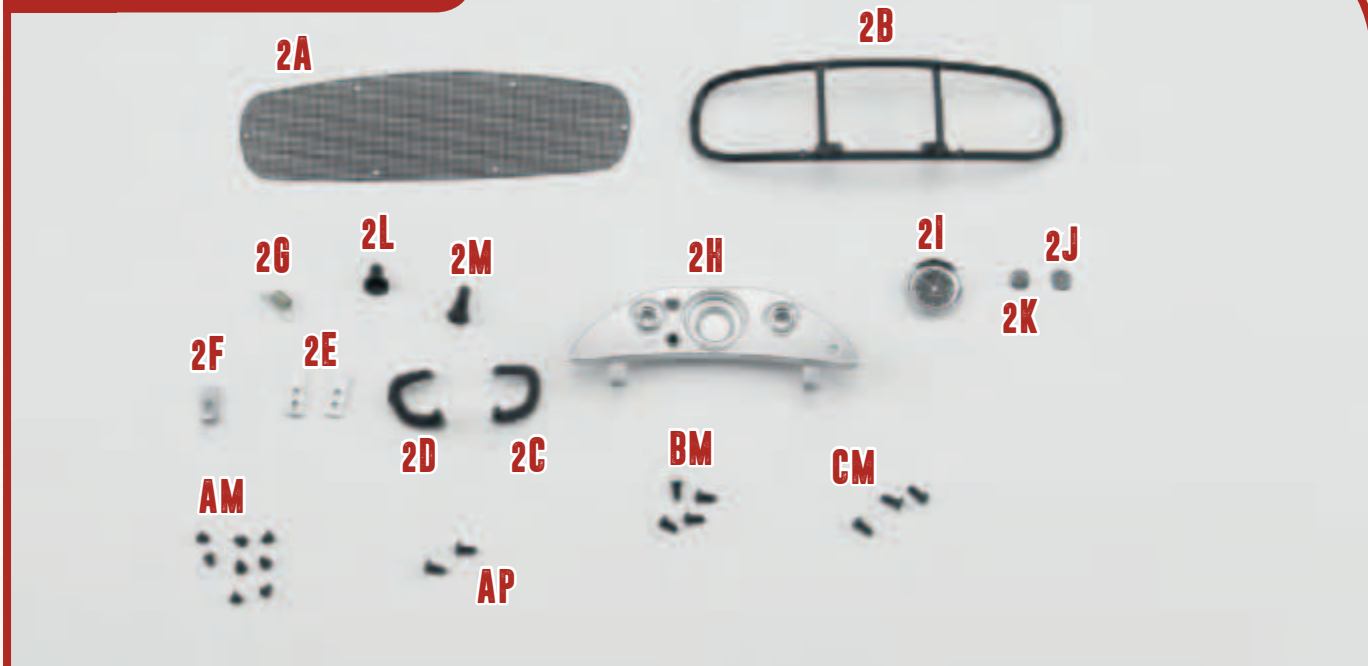
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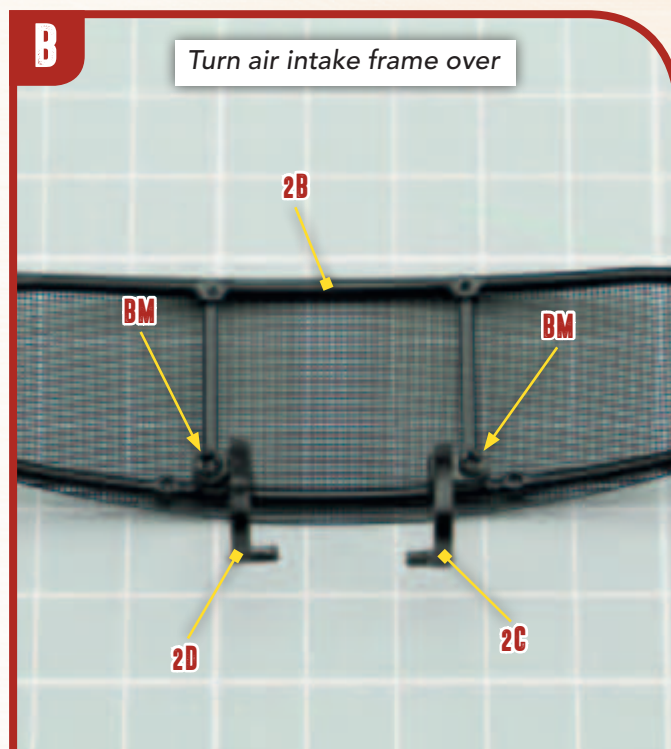
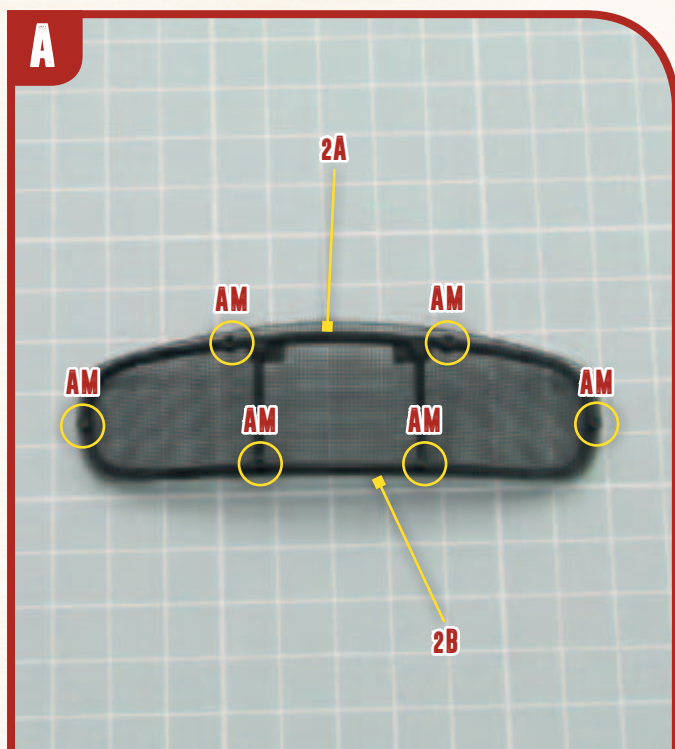
- 1A** Nose
- 1B** Badge
- 1C** Radiator support
- 1D** Air intake frame
- 1E** Air intake
- 1F** Steering wheel
- 1G** Screwdriver
- AP** 2 screws (1.7x4mm)
- CM** 5 screws (1.7x4mm)

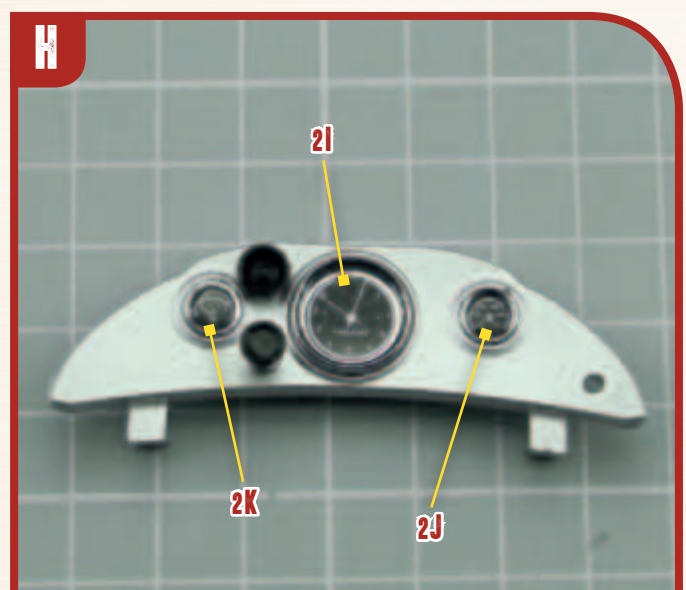
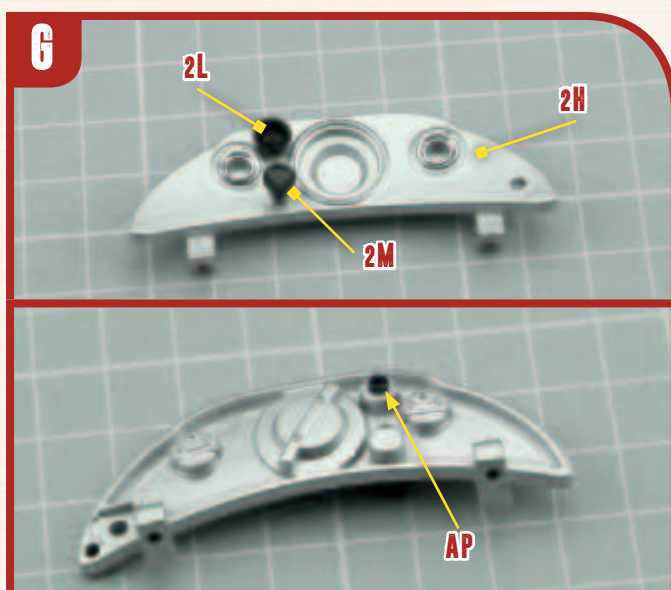
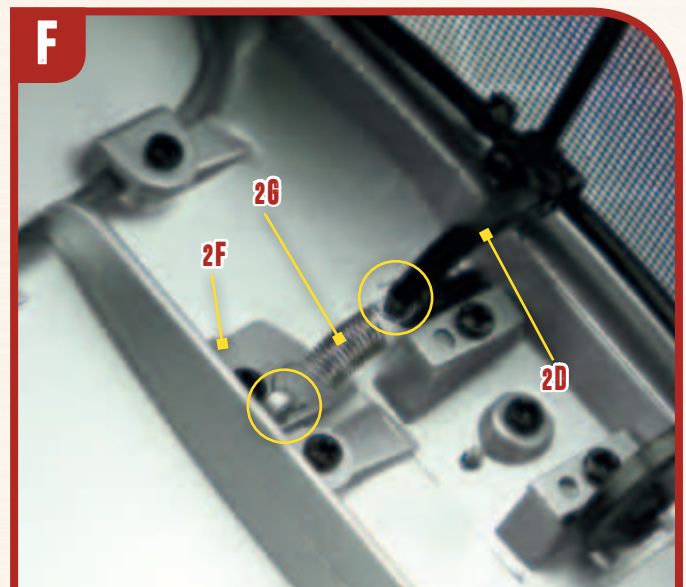
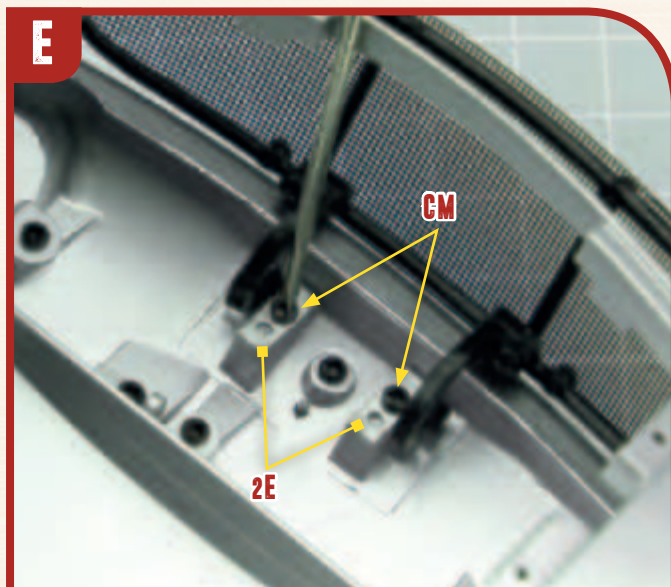
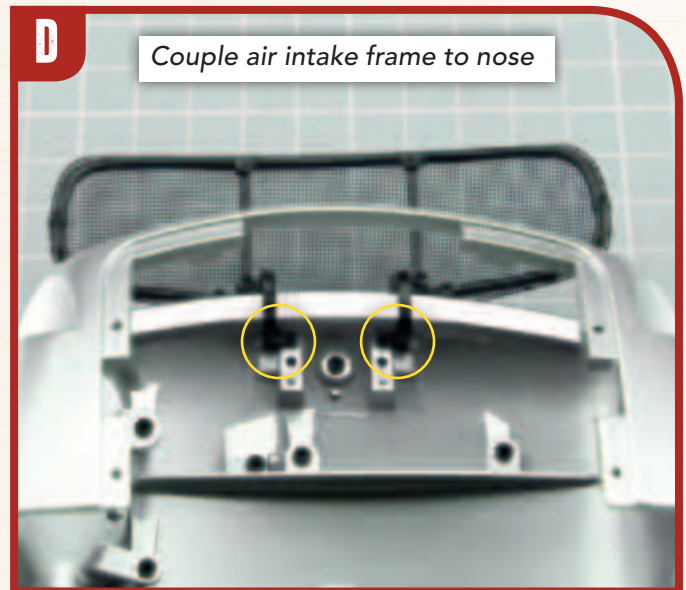
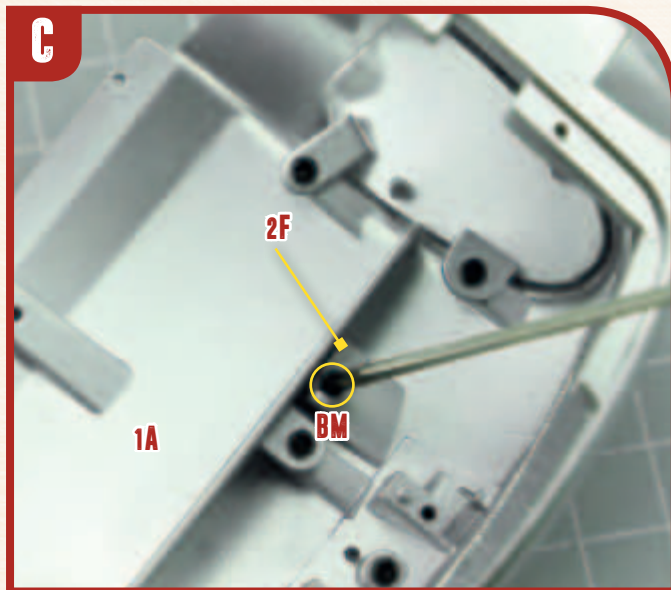


02 PARTS LIST



2A	Air intake net	2H	Dashboard	AP	2 screws (1.7x4mm)
2B	Air intake frame	2I	Tachometer	AM	8 screws (1.5x2mm)
2C	Hinge (L)	2J	Water temperature gauge	BM	4 screws (1.7x3mm)
2D	Hinge (R)	2K	Oil pressure gauge	CM	3 screws (1.7x4mm)
2E	Hinge supports (x2)	2L	Low fuel indicator		
2F	Bracket	2M	Cold start injector		
2G	Spring				

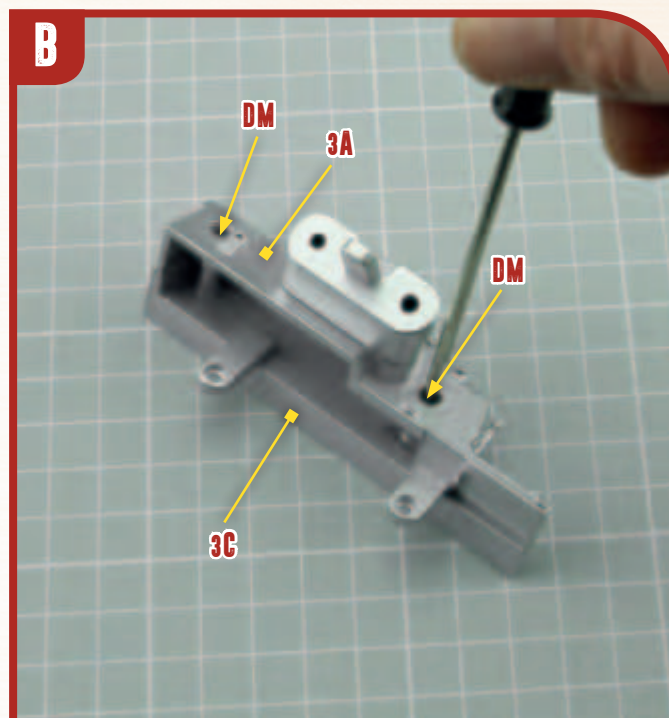
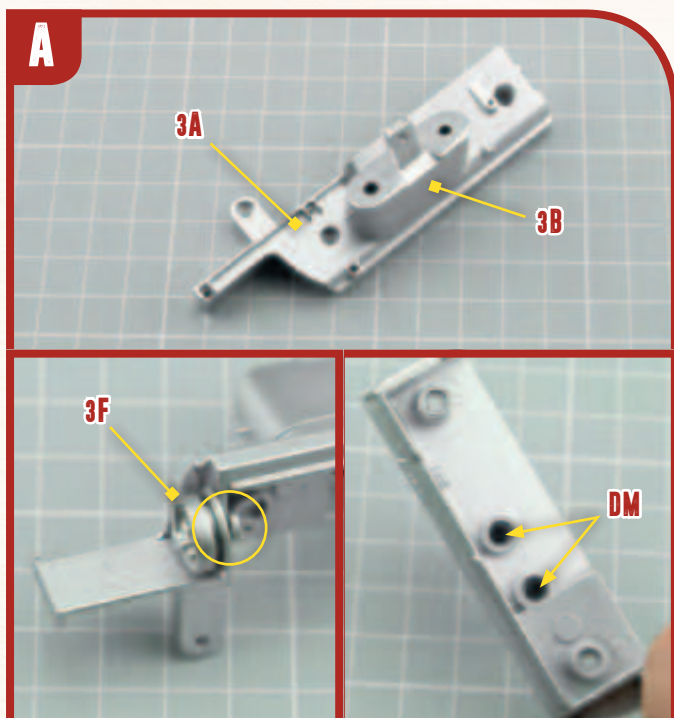


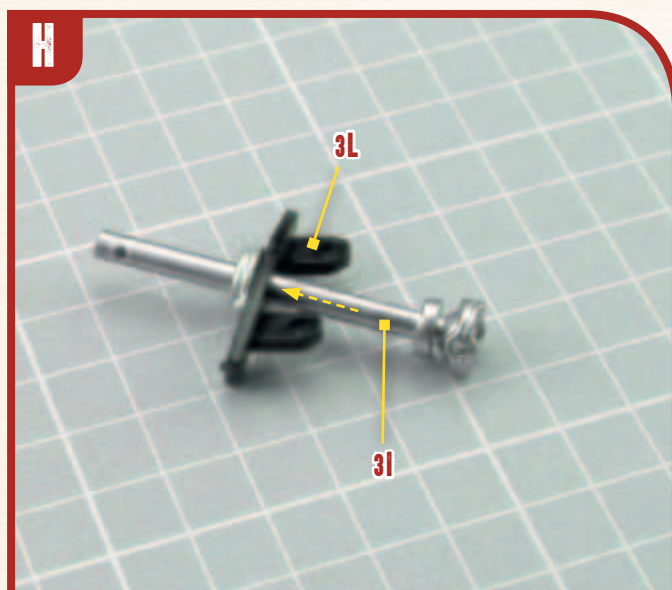
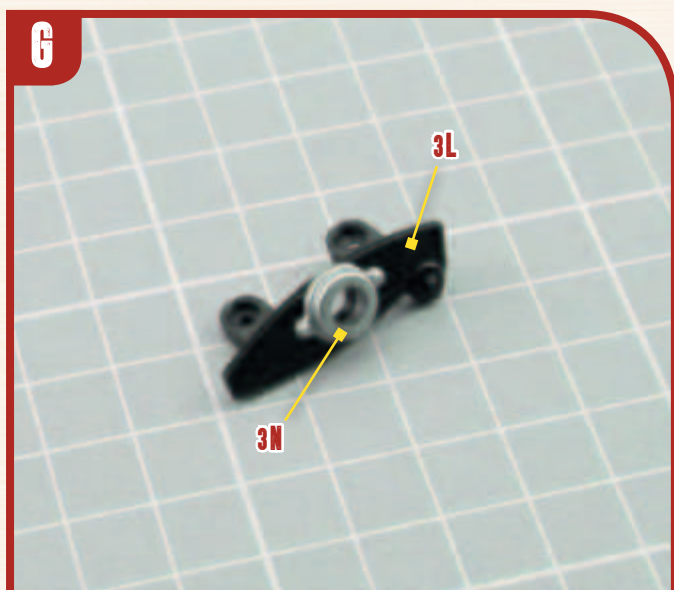
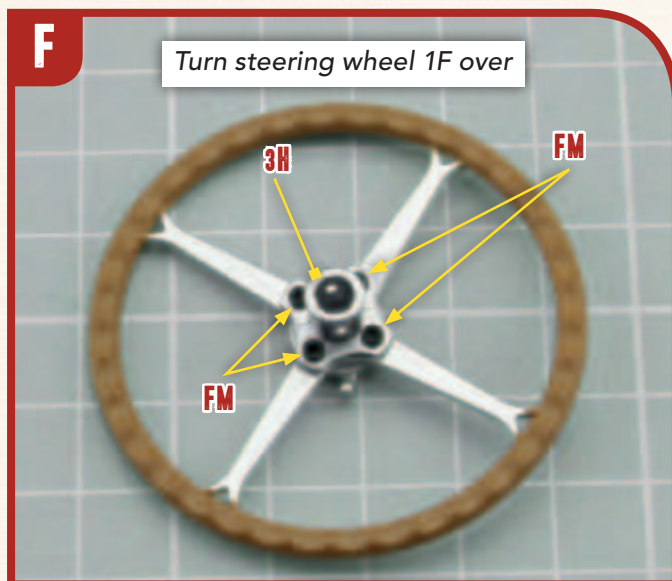
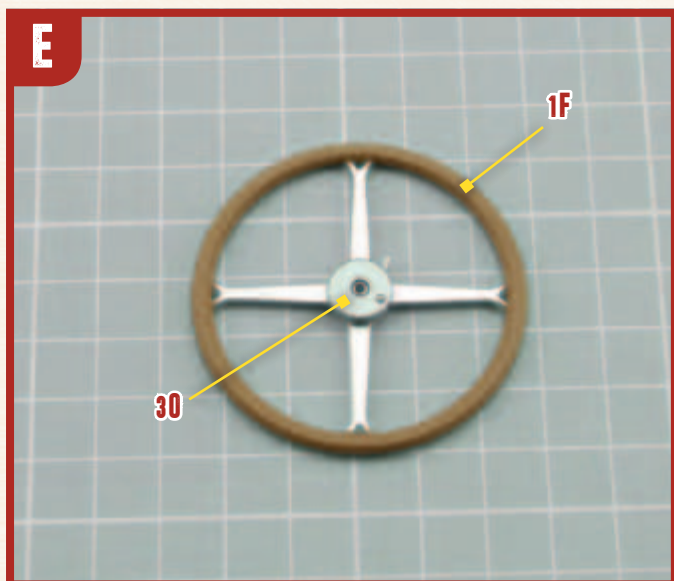
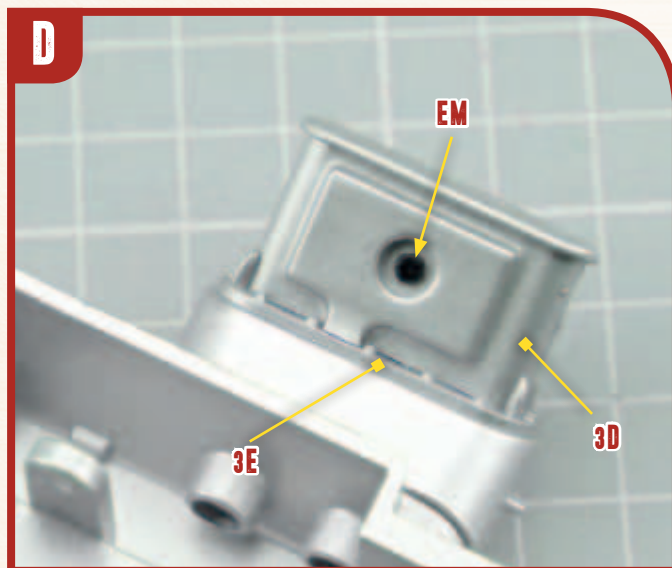
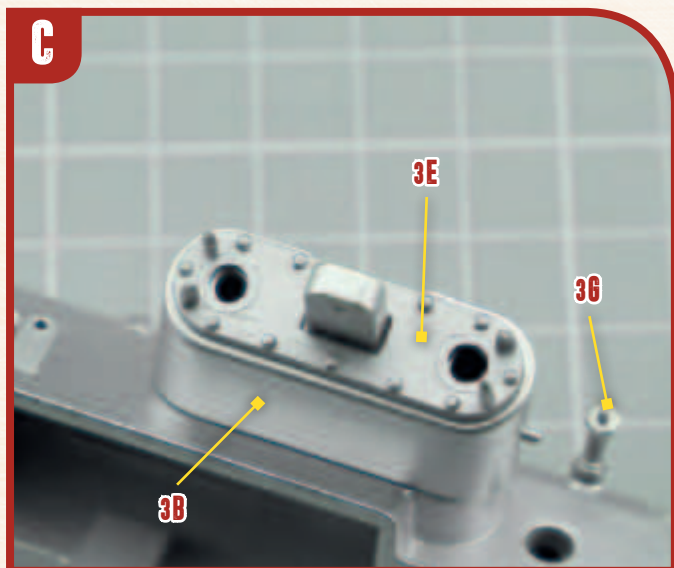


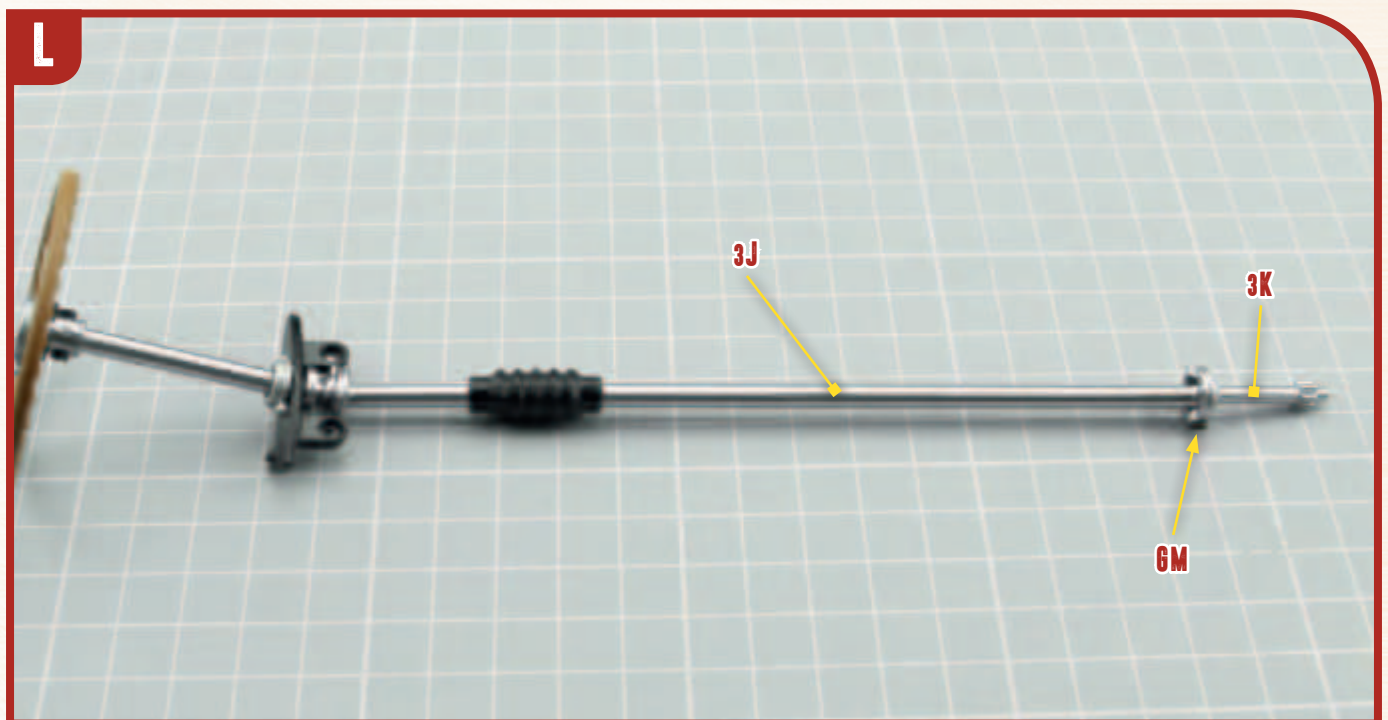
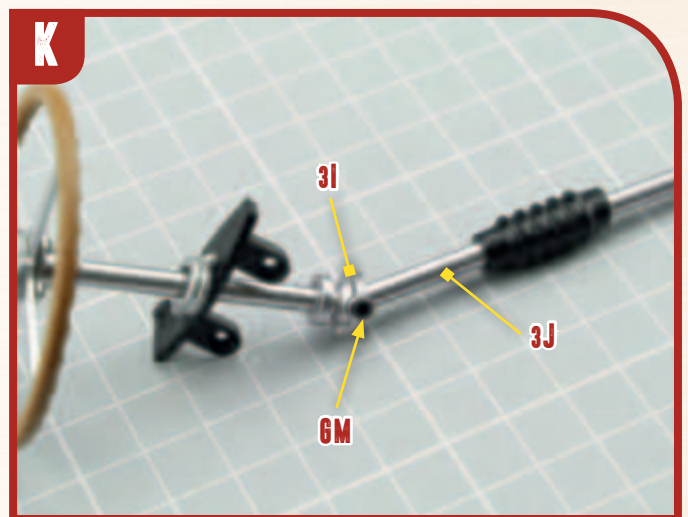
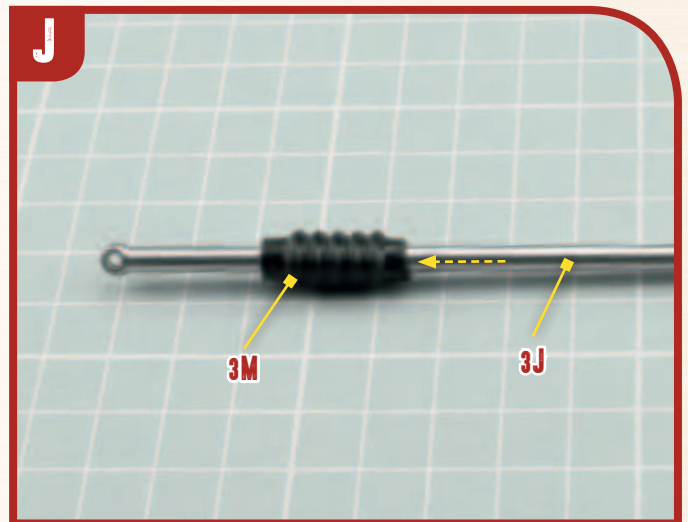
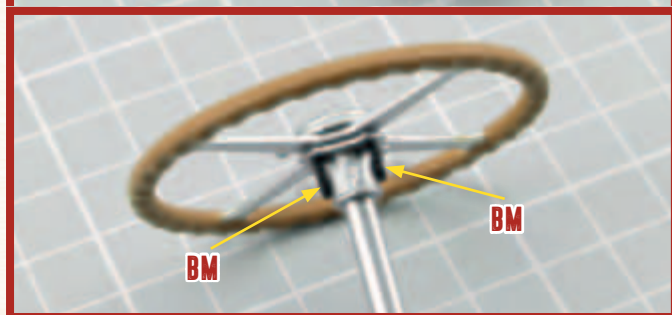
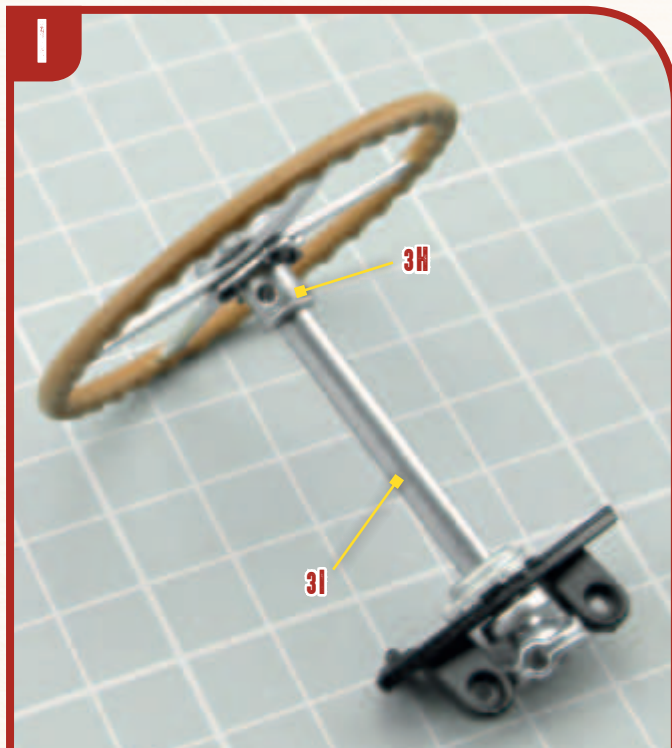
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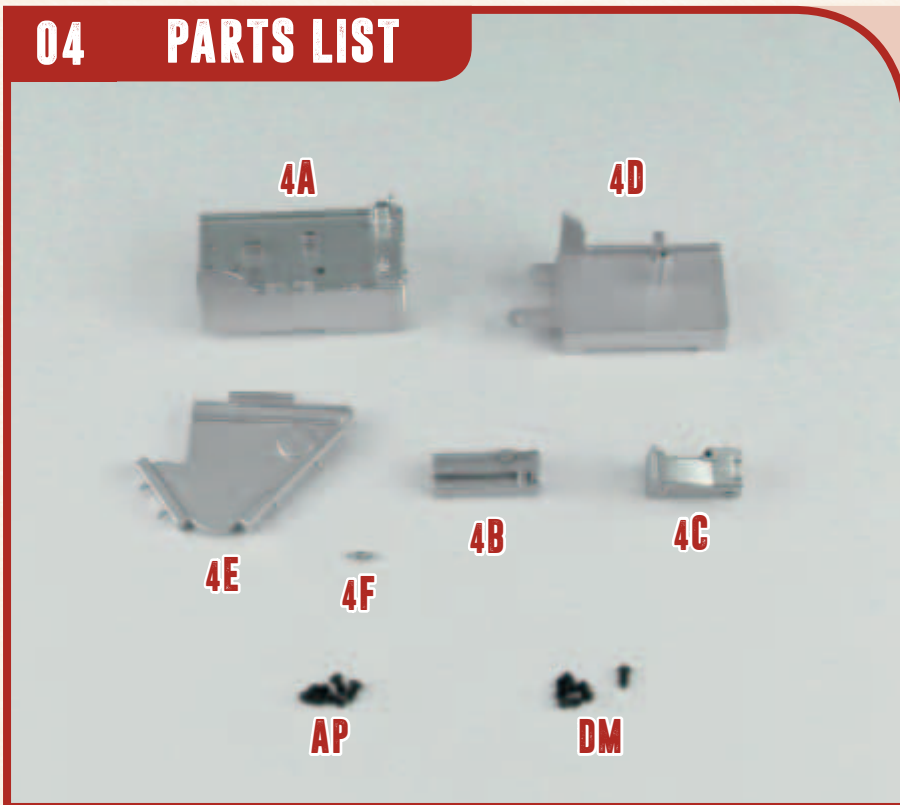
- | | | |
|----------------------------------|-----------------------------------|---------------------------------|
| 3A Engine lower block (L) | 3H Steering wheel fitting | 3O Steering wheel detail |
| 3B Oil pan part A | 3I Steering column part A | BM 3 screws (1.7x3mm) |
| 3C Engine lower block (R) | 3J Steering column part B | DM 5 screws (2x4mm) |
| 3D Oil pan part B | 3K Steering column part C | EM 2 screws (1.5x3mm) |
| 3E Oil pan bracket | 3L Panel | FM 5 screws (1.7x2mm) |
| 3F Oil pump | 3M Bellow | GM 3 screws (2x10mm) |
| 3G Sleeve | 3N Steering column support | |



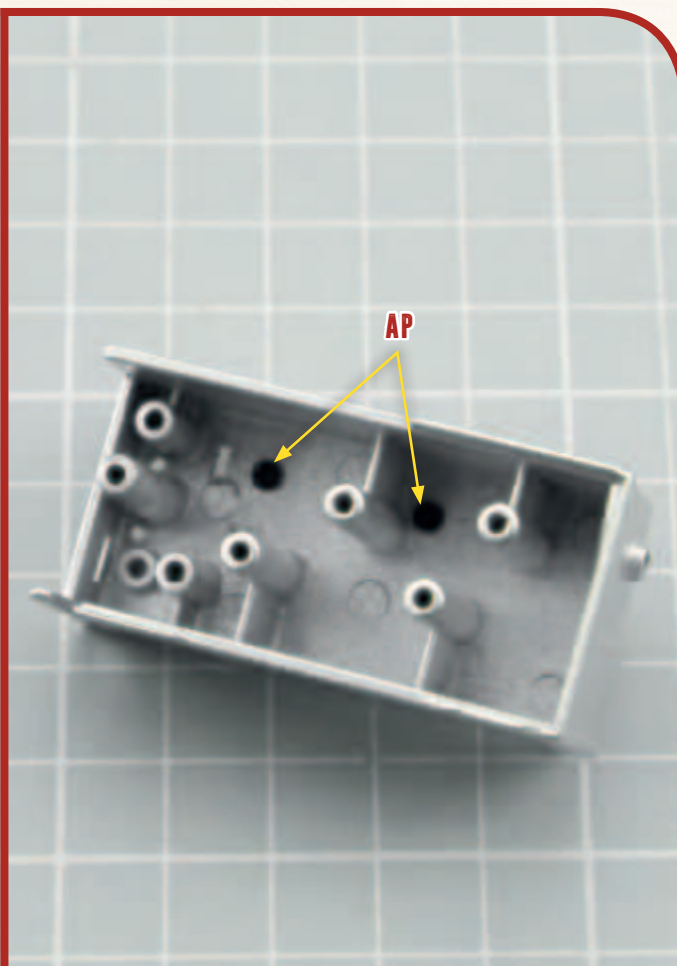
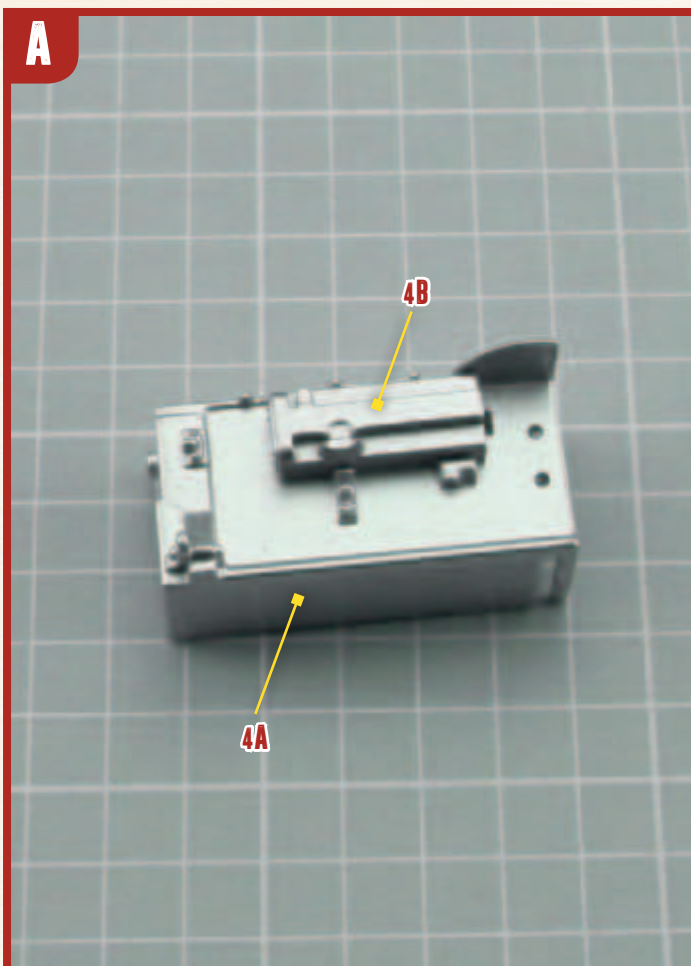


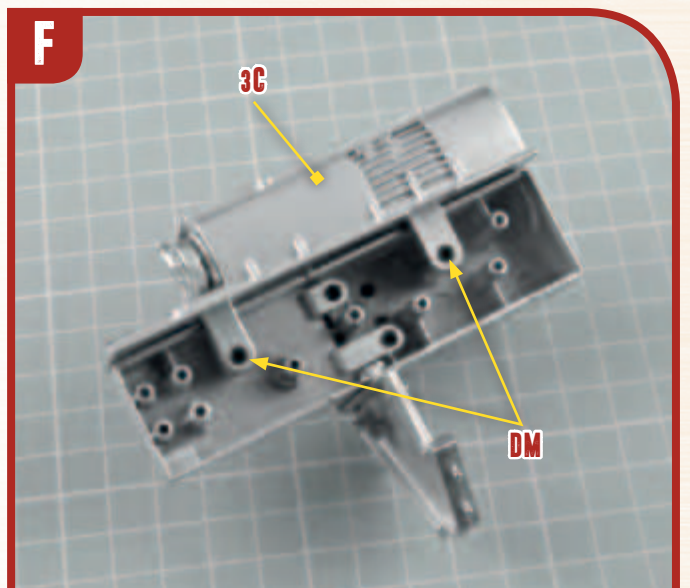
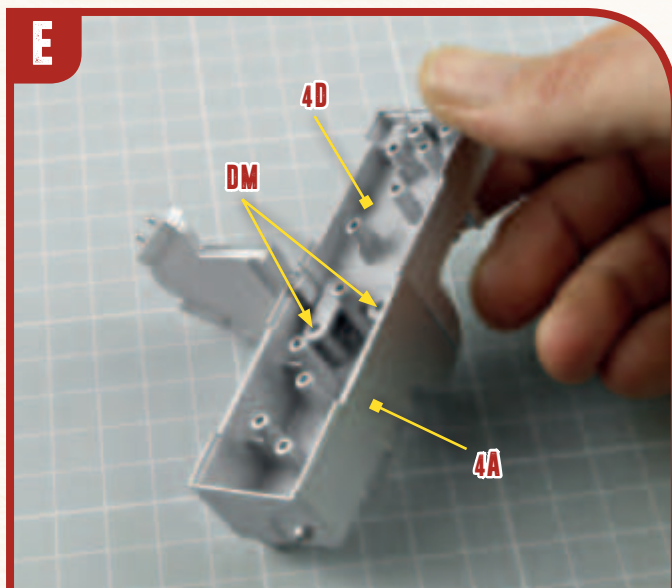
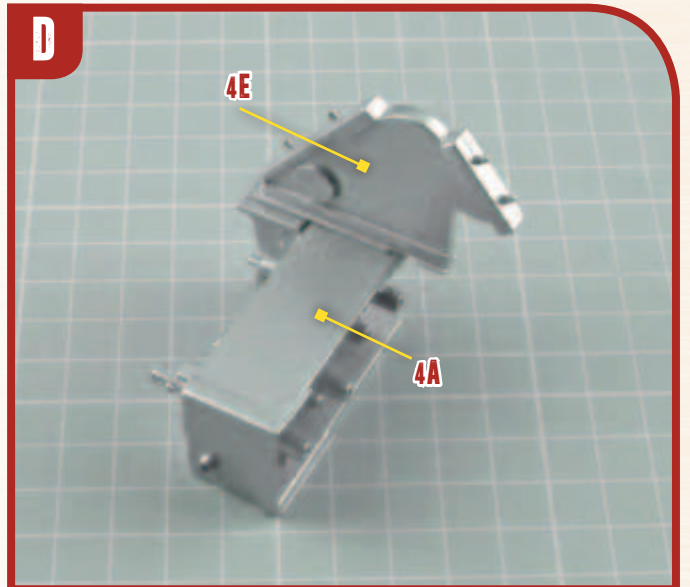
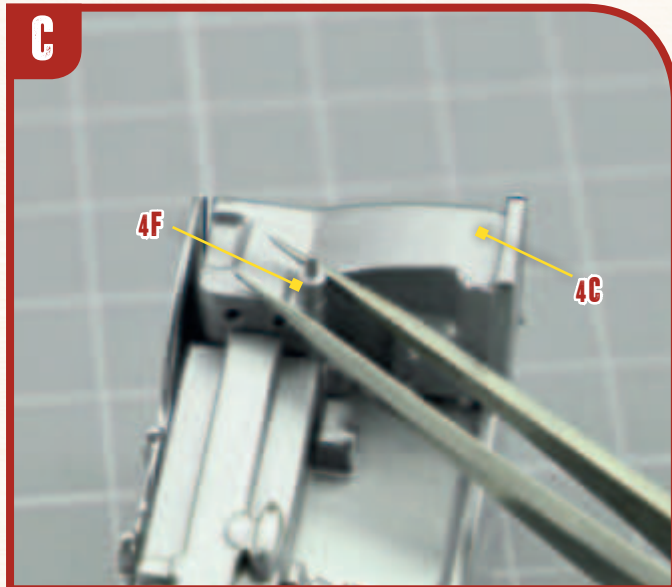
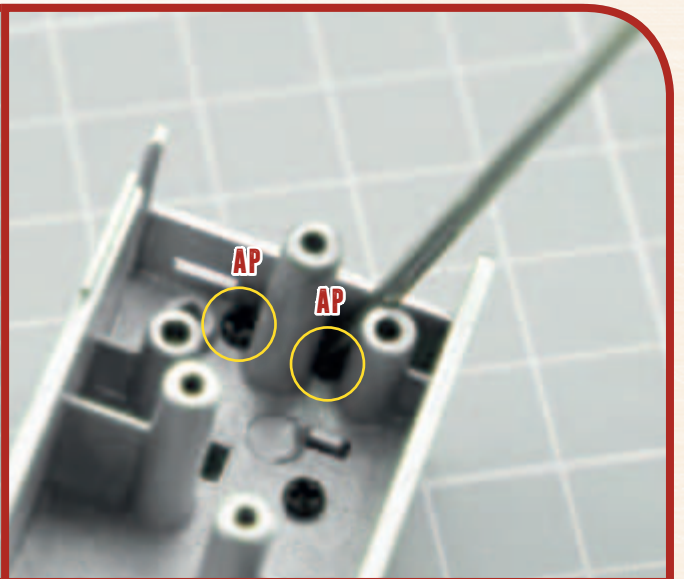
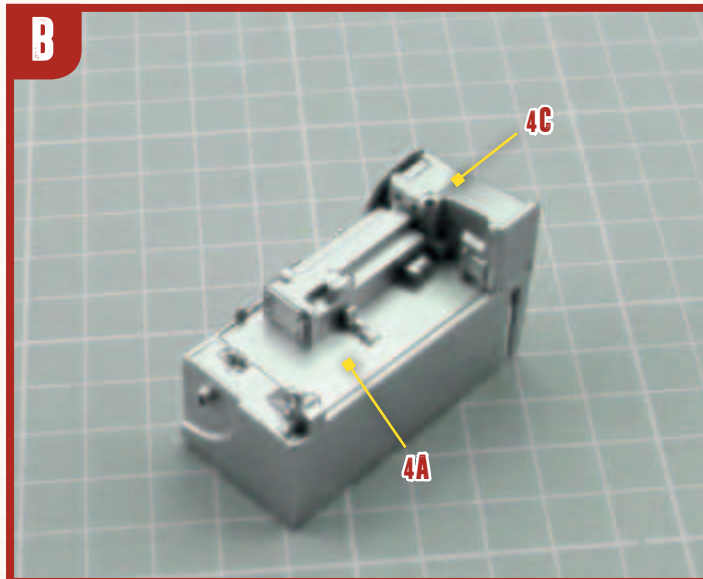


04 PARTS LIST

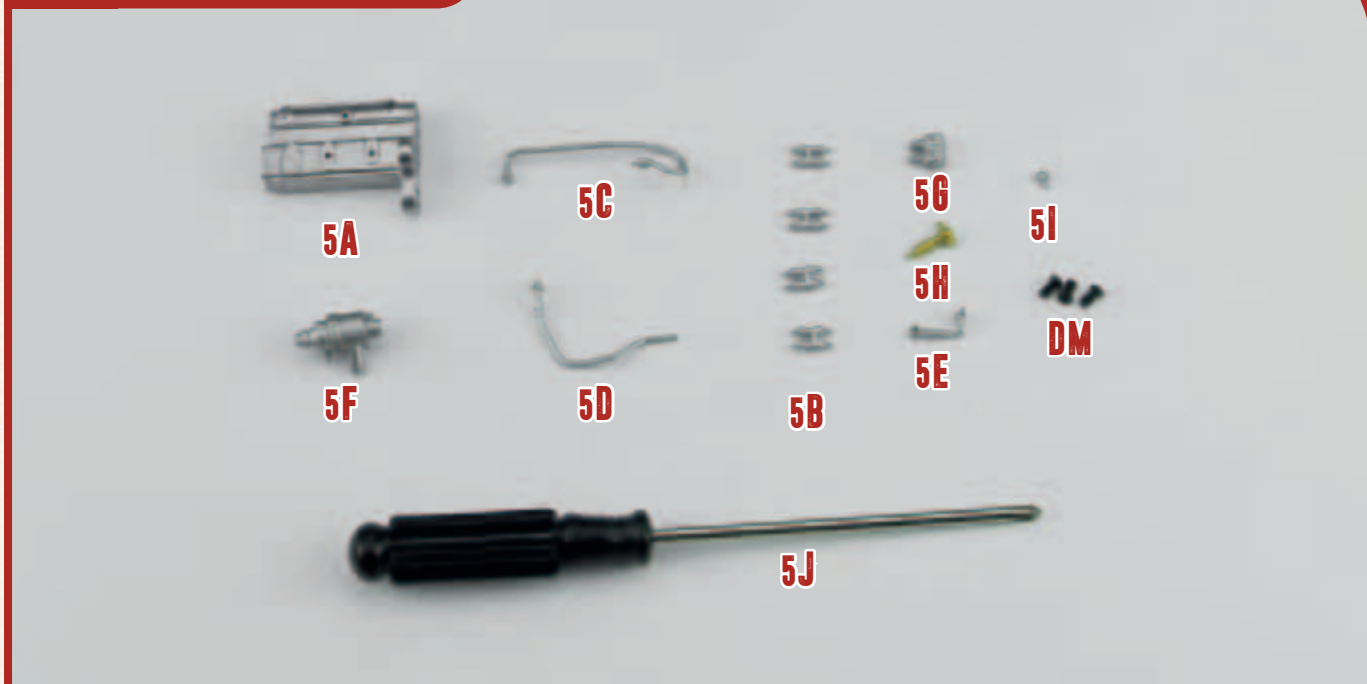


- 4A** Engine upper block part A (L)
- 4B** Engine upper block part B (L)
- 4C** Central gearbox part A
- 4D** Engine upper block part C (L)
- 4E** Central gearbox part B
- 4F** Oil pressure valve
- AP** 5 screws (1.7x4mm)
- DM** 5 screws (2x4mm)





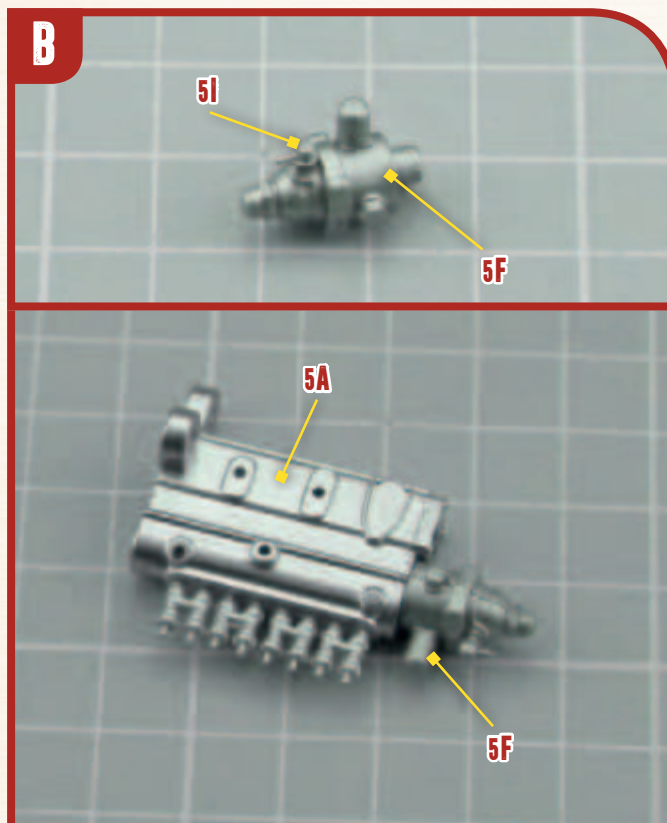
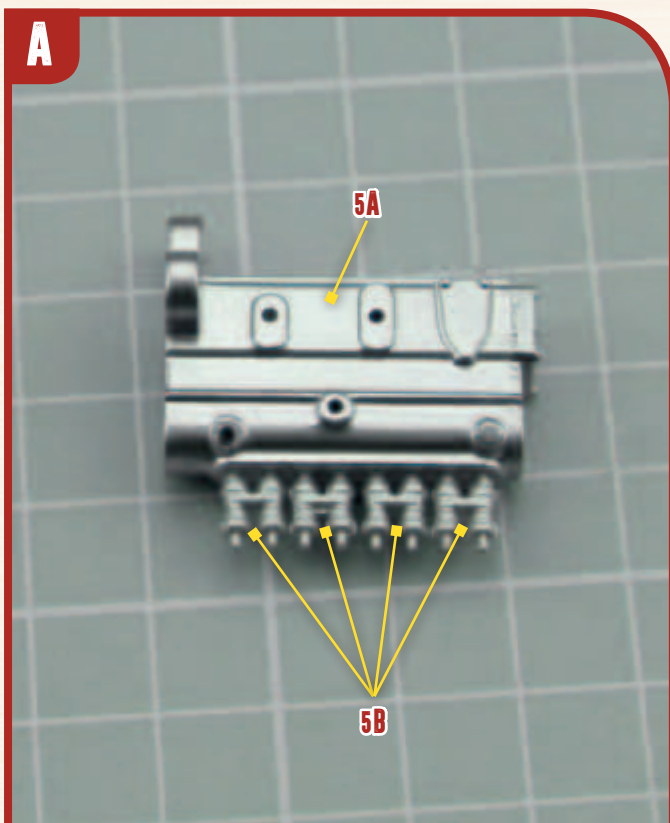
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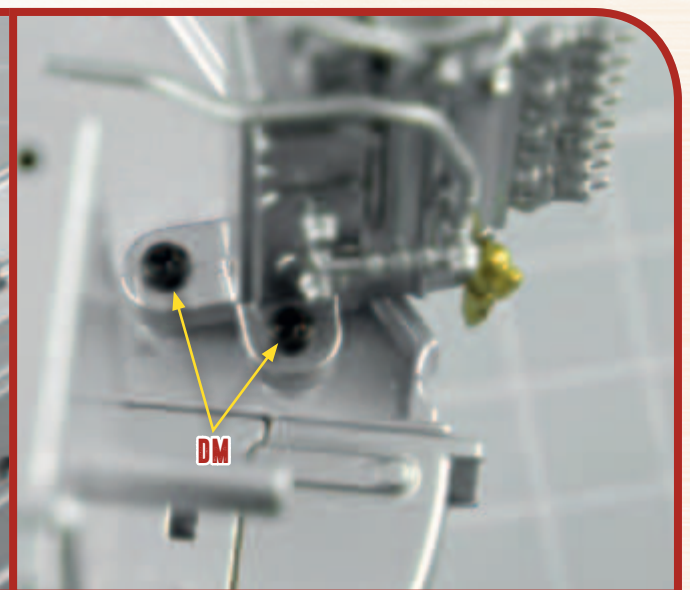
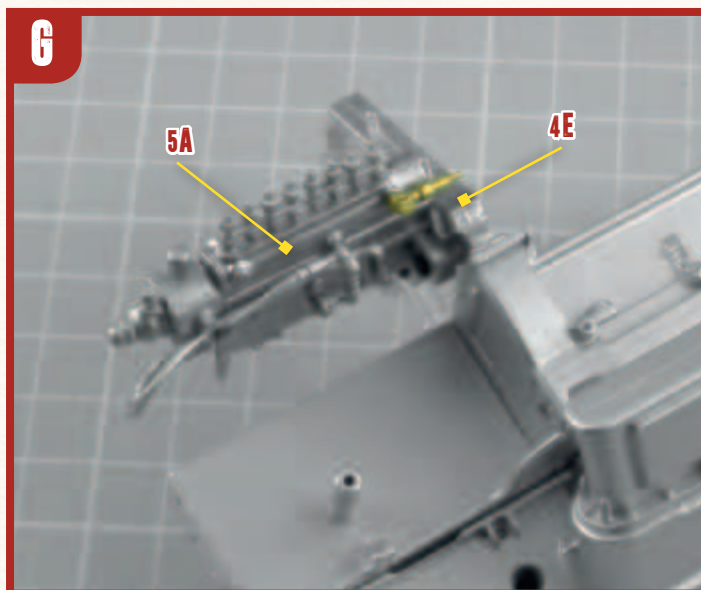
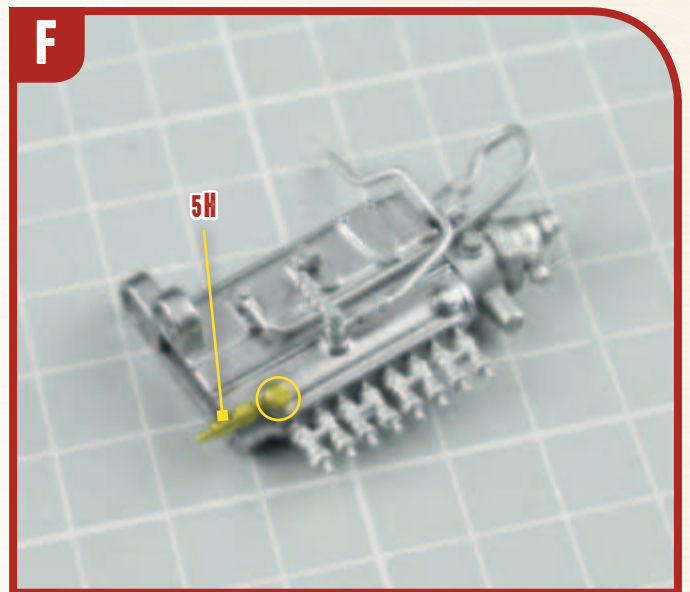
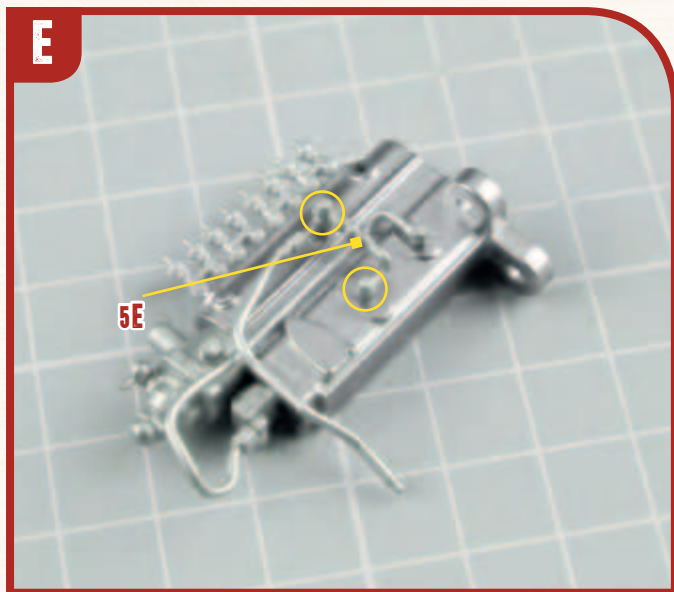
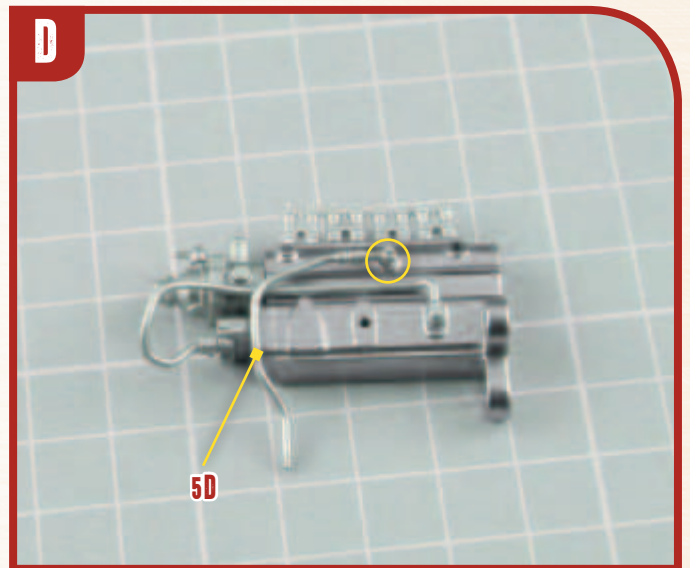
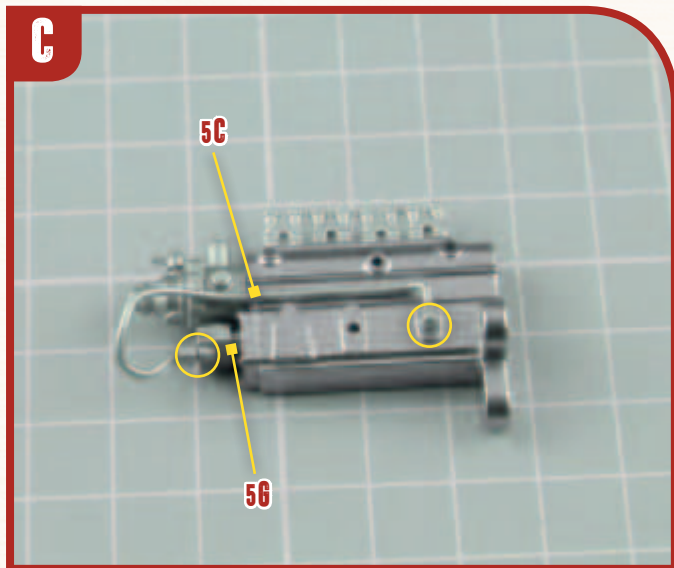


5A Fuel pump body
5B Joints 1 (x4)
5C Pipe 1
5D Pipe 2

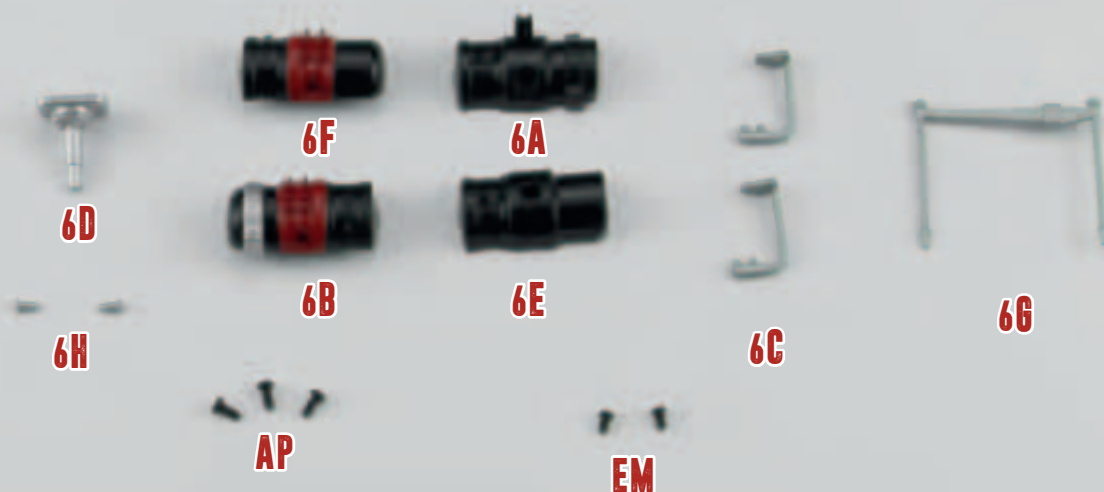
5E Joint 2
5F Fuel pump part A
5G Fuel pump part B
5H Joint 3

5I Joint 4
5J Screwdriver
DM 3 screws (2x4mm)





06 PARTS LIST

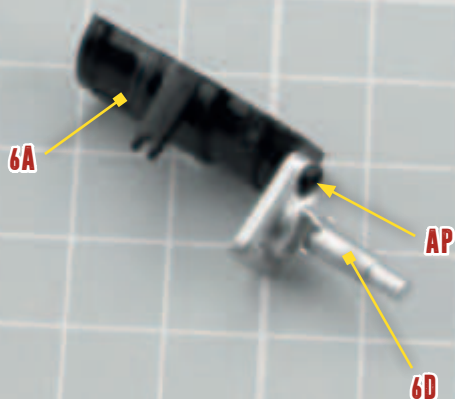


6A Starter part A
6B Starter part B
6C Brackets (x2)
6D PTO shaft

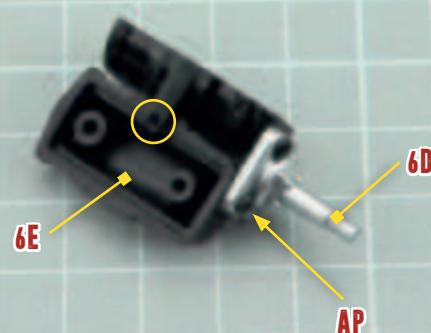
6E Starter part C
6F Starter part D
6G Starter support
6H Pins (x2)

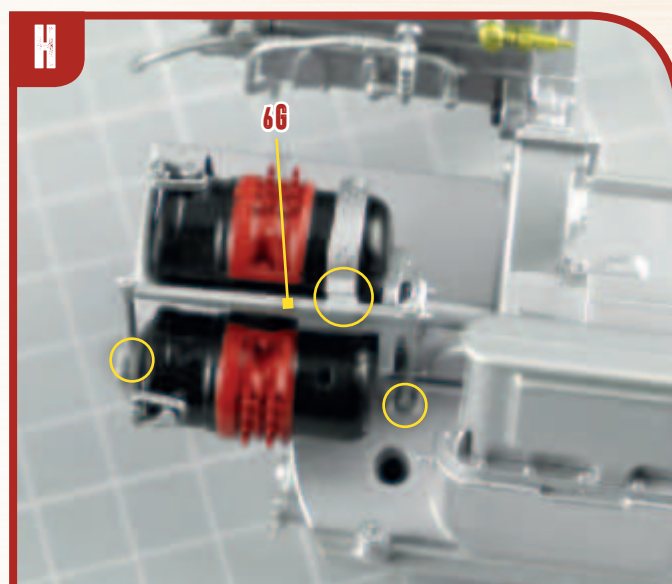
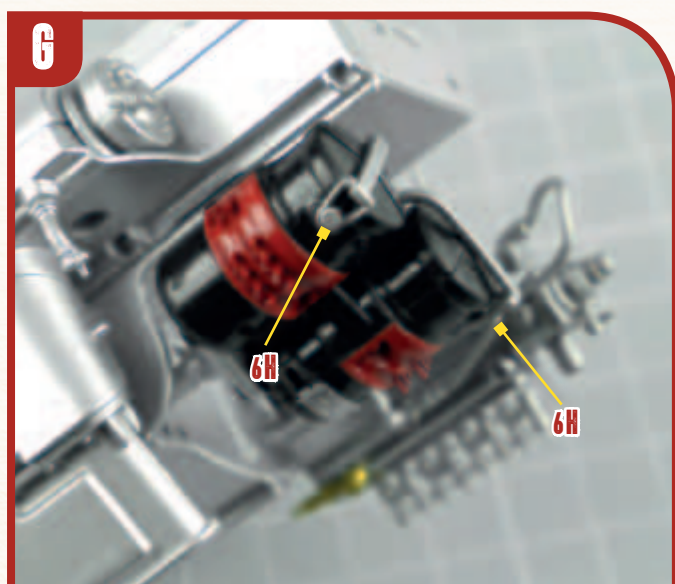
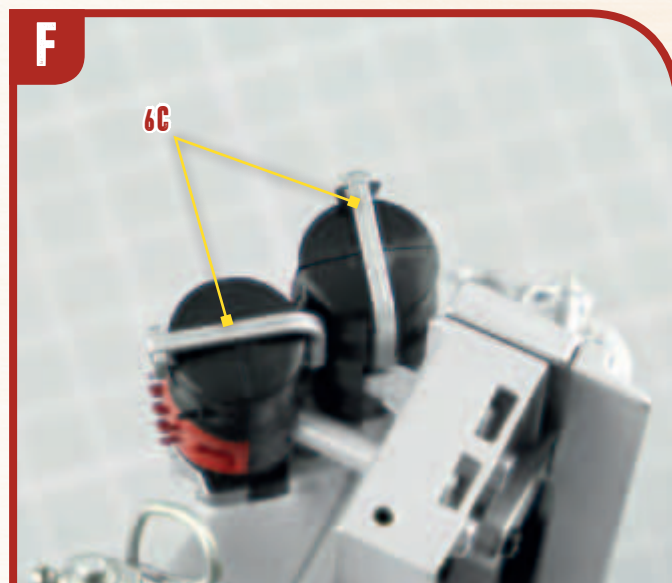
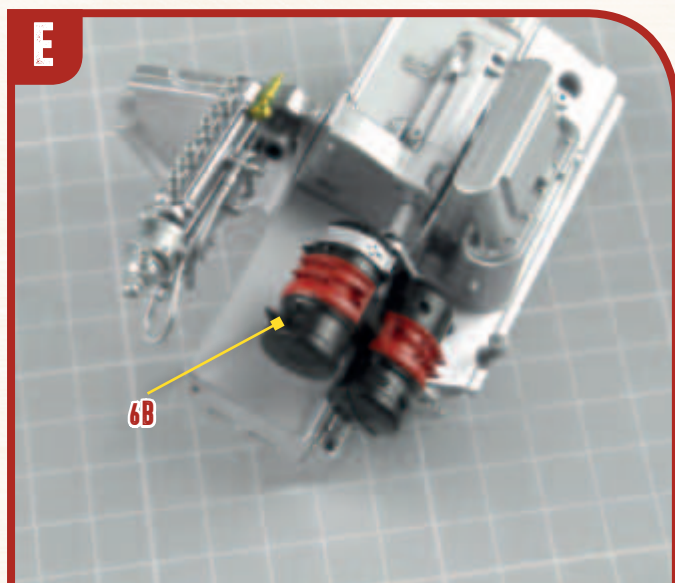
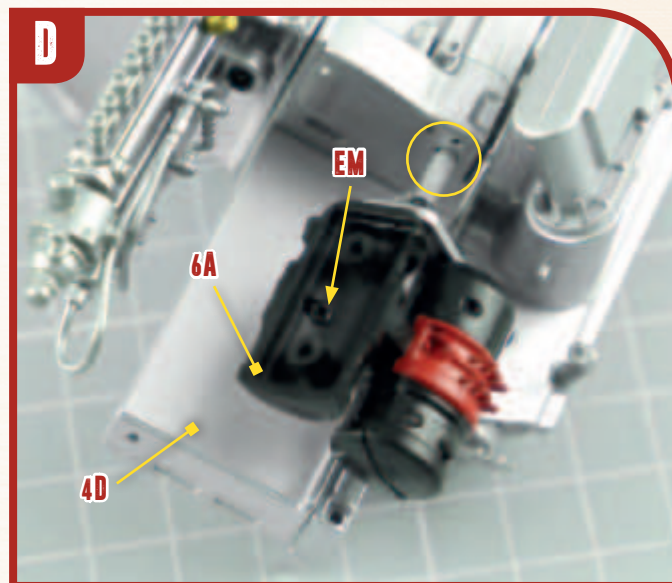
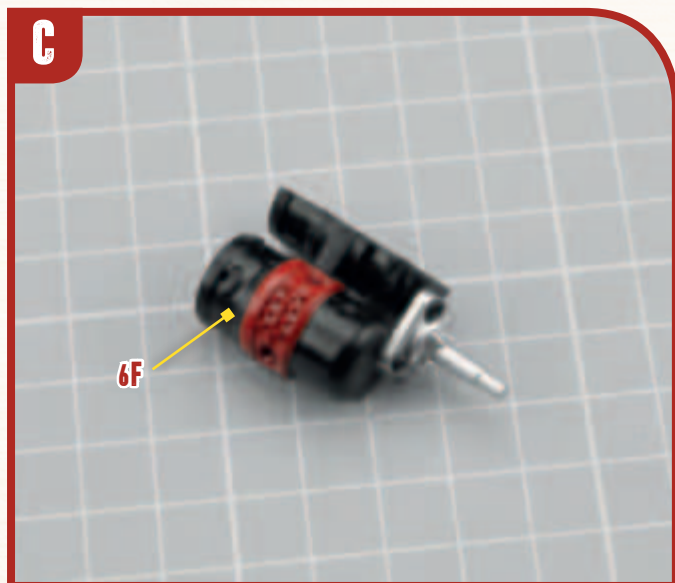
AP 3 screws (1.7x4mm)
EM 2 screws (1.5x3mm)

A

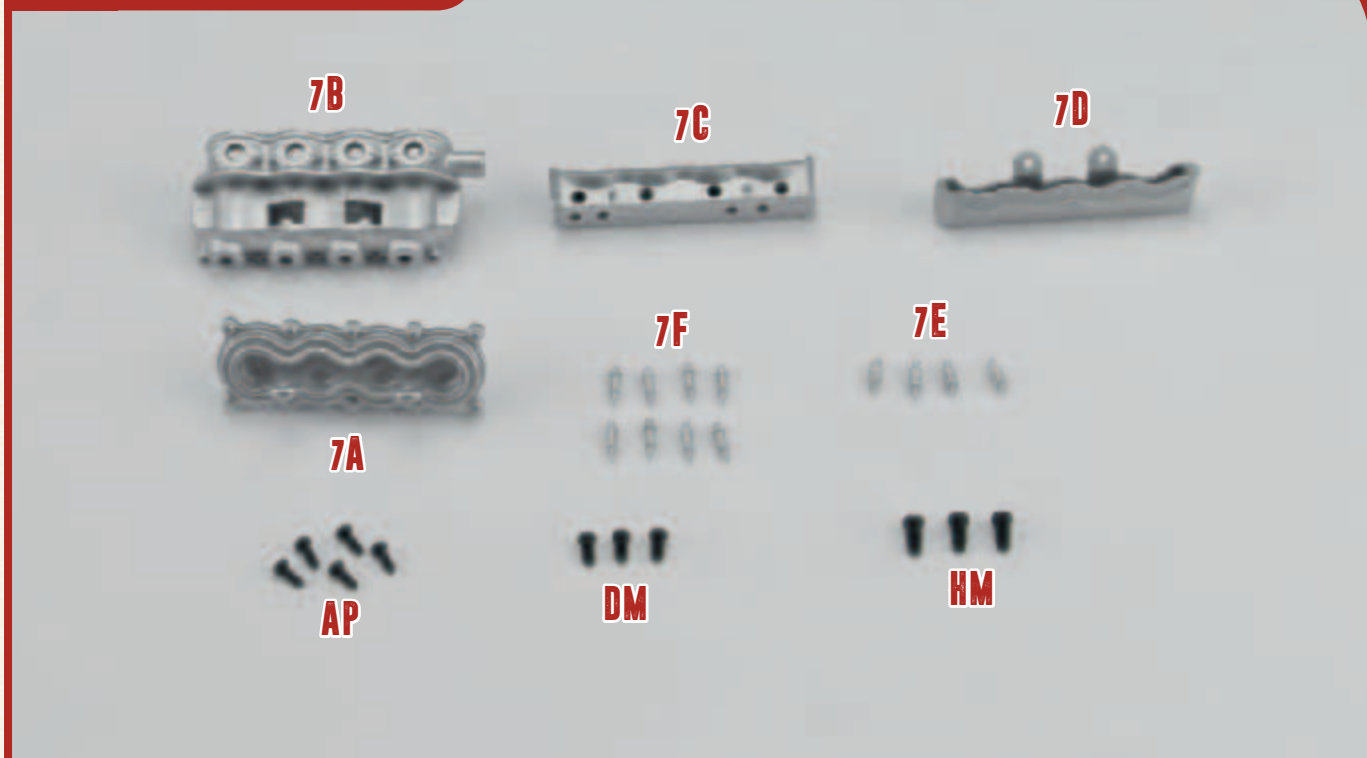


B





07 PARTS LIST

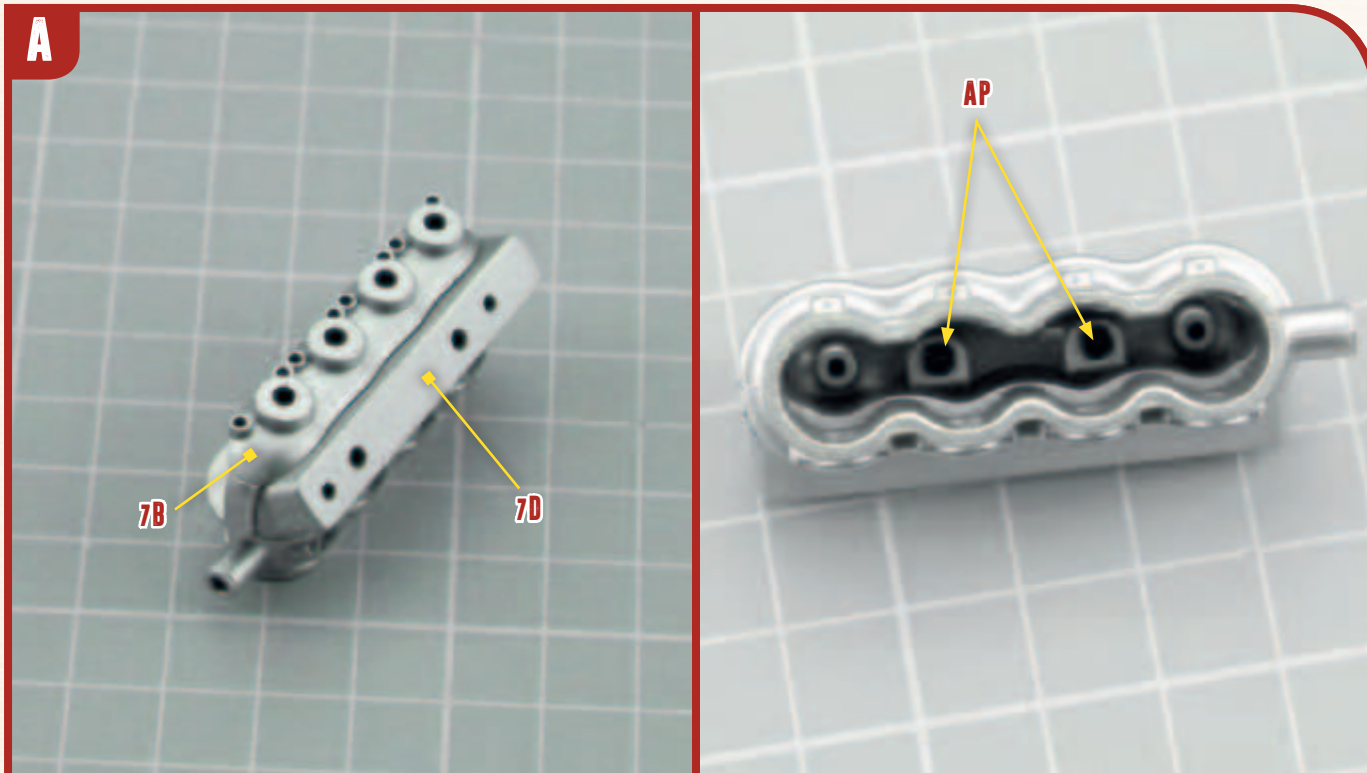


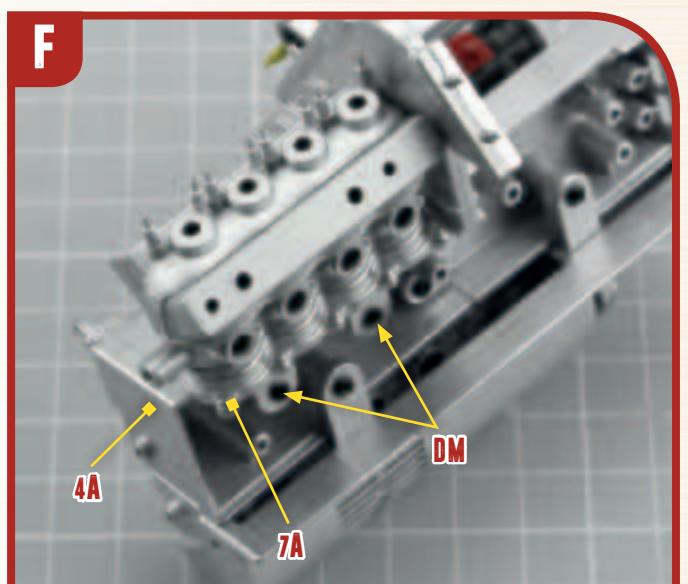
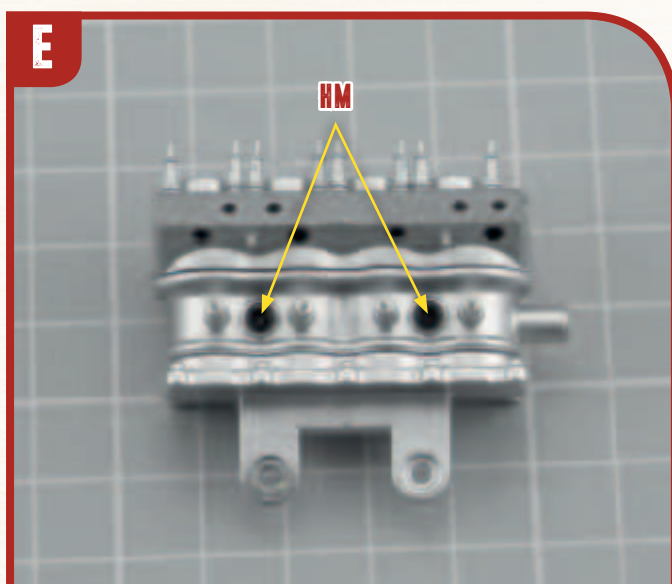
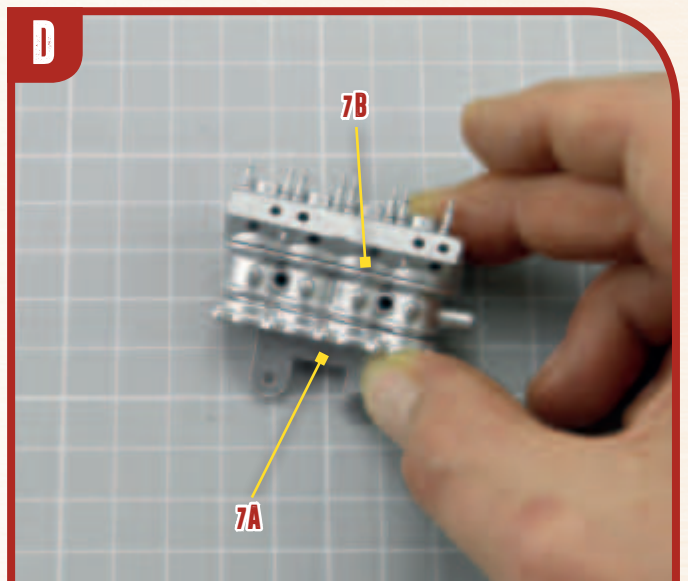
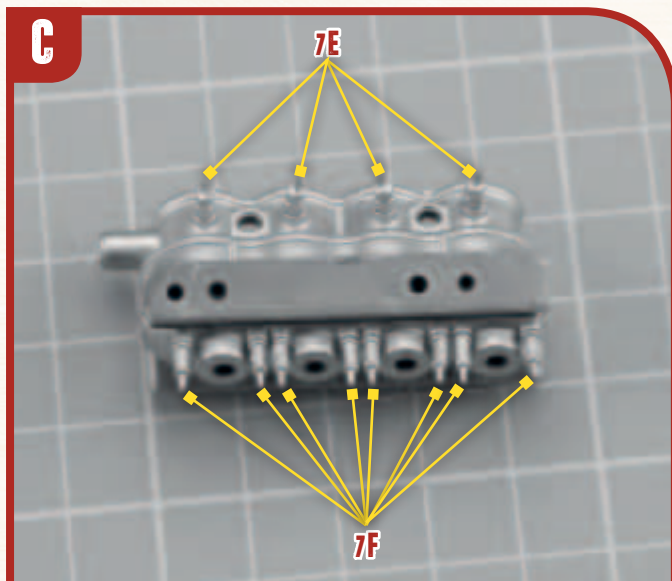
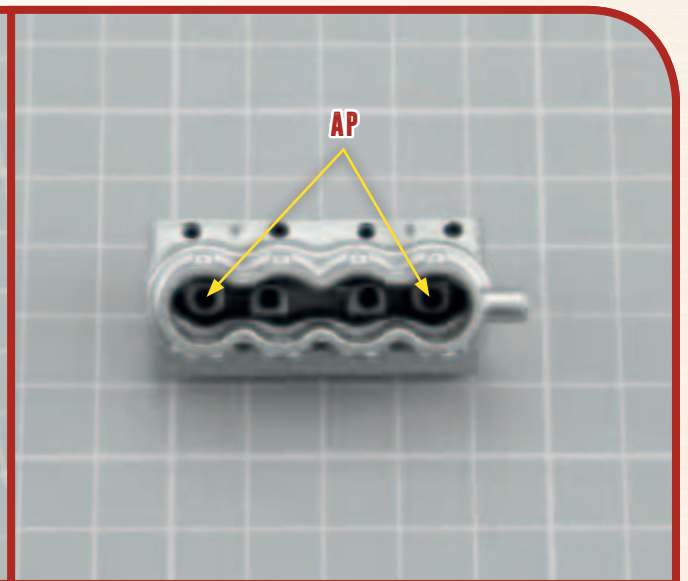
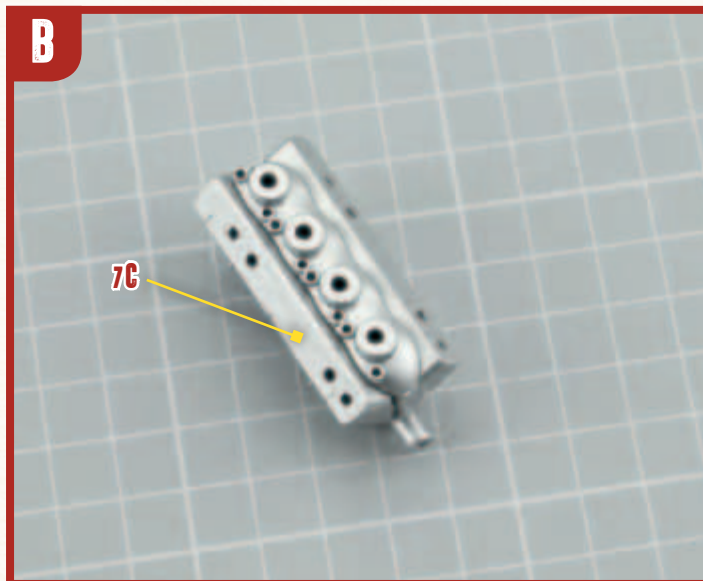
7A Cylinder head base
7B Cylinder head
7C Cover 1

7D Cover 2
7E Fuel injectors (x4)
7F Spark plugs (x8)

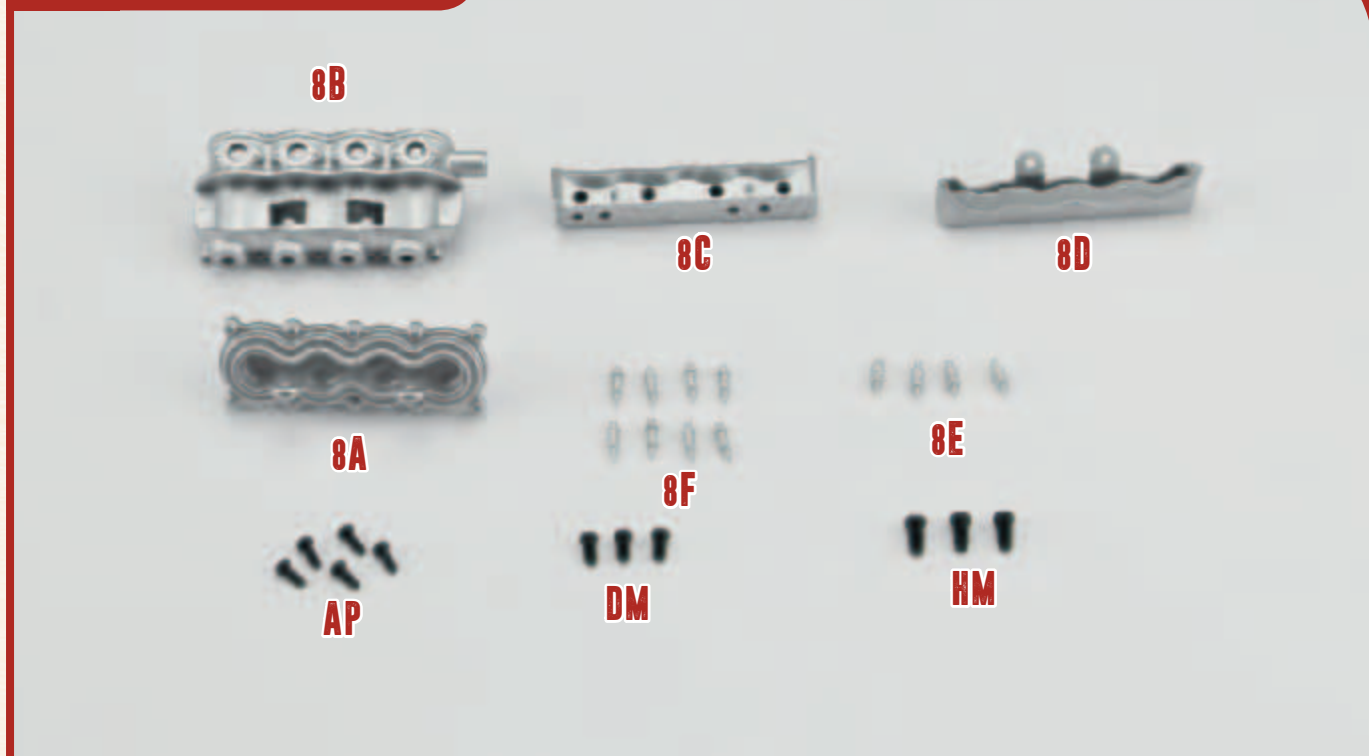
AP 5 screws (1.7x4mm)
DM 3 screws (2x4mm)
HM 3 screws (2.3x5mm)

A





08 PARTS LIST

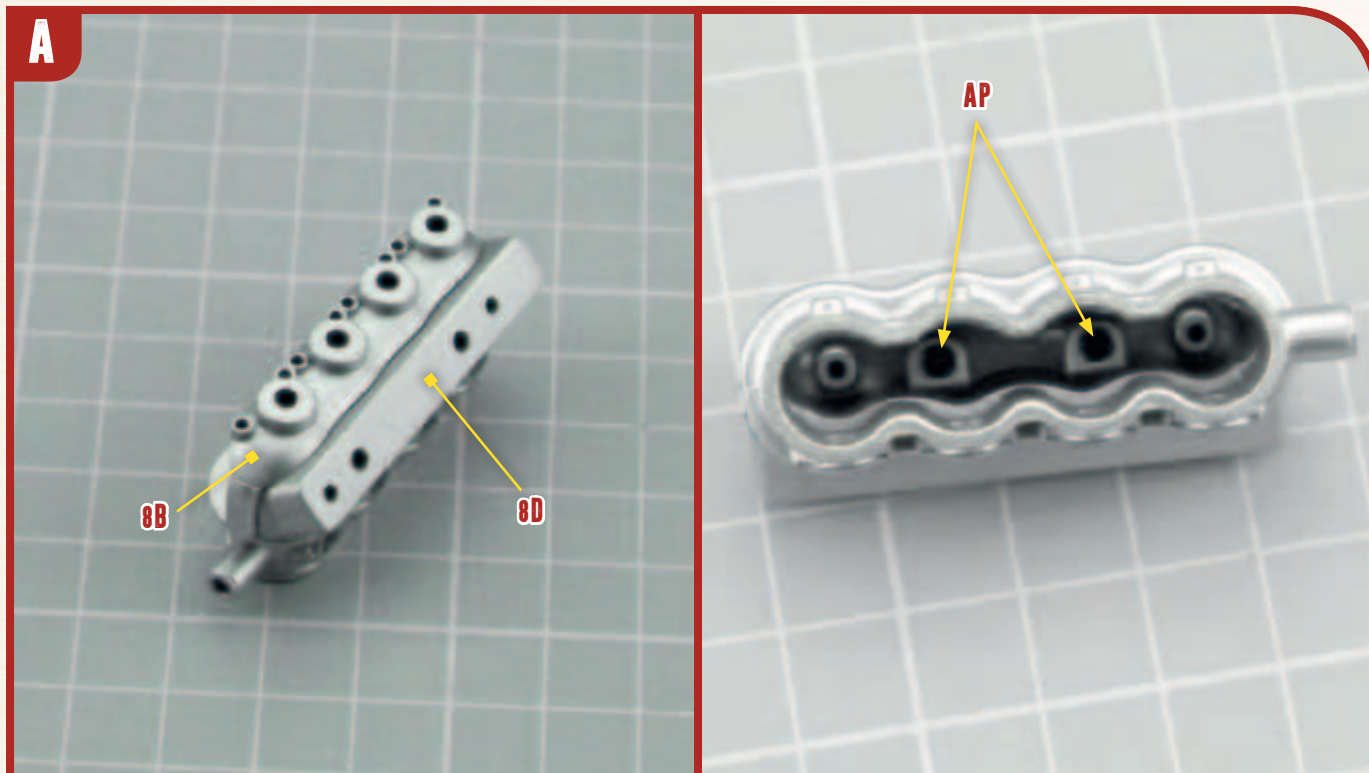


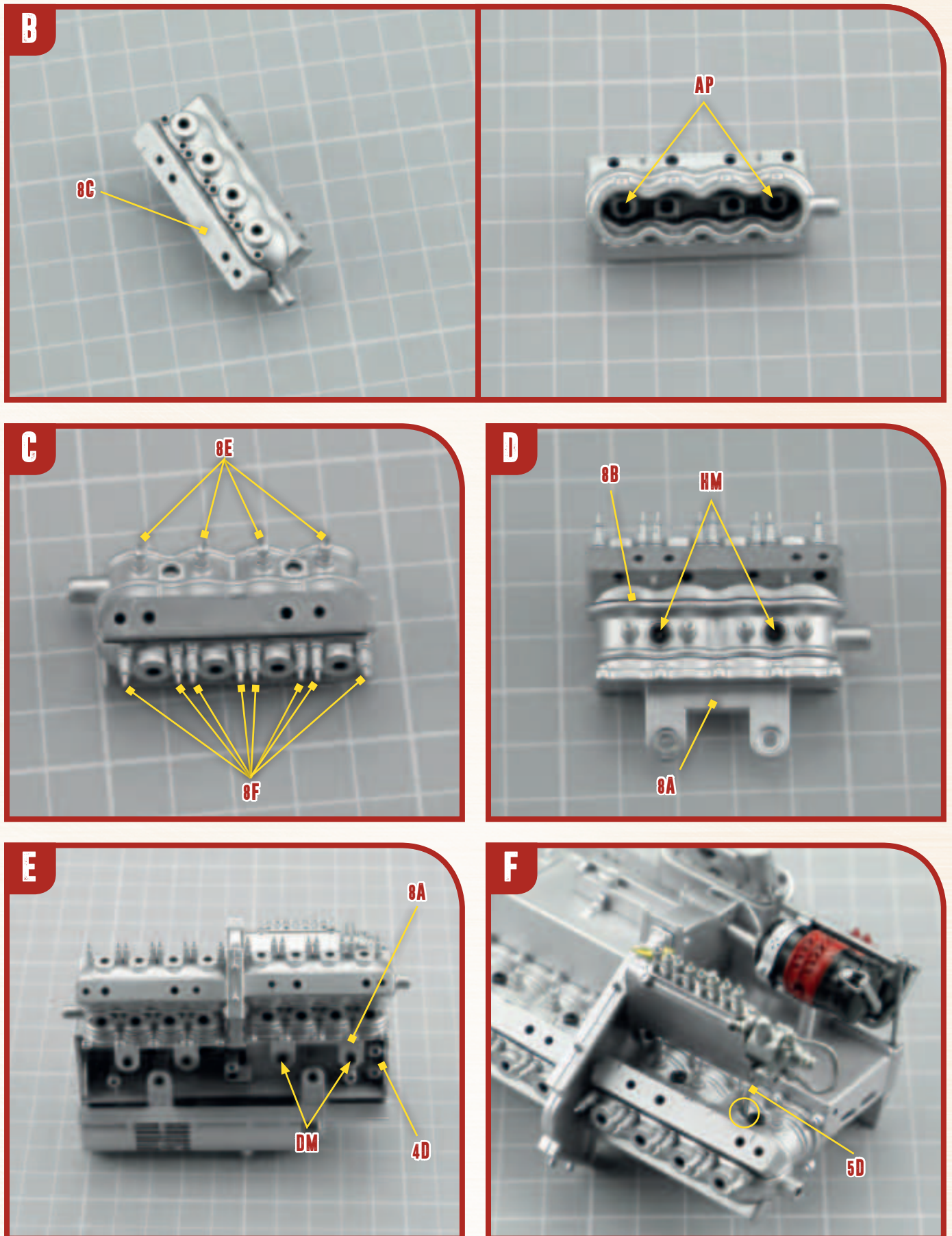
8A Cylinder head base
8B Cylinder head
8C Cover 1

8D Cover 2
8E Fuel injectors (x4)
8F Spark plugs (x8)

AP 5 screws (1.7x4mm)
DM 3 screws (2x4mm)
HM 3 screws (2.3x5mm)

A





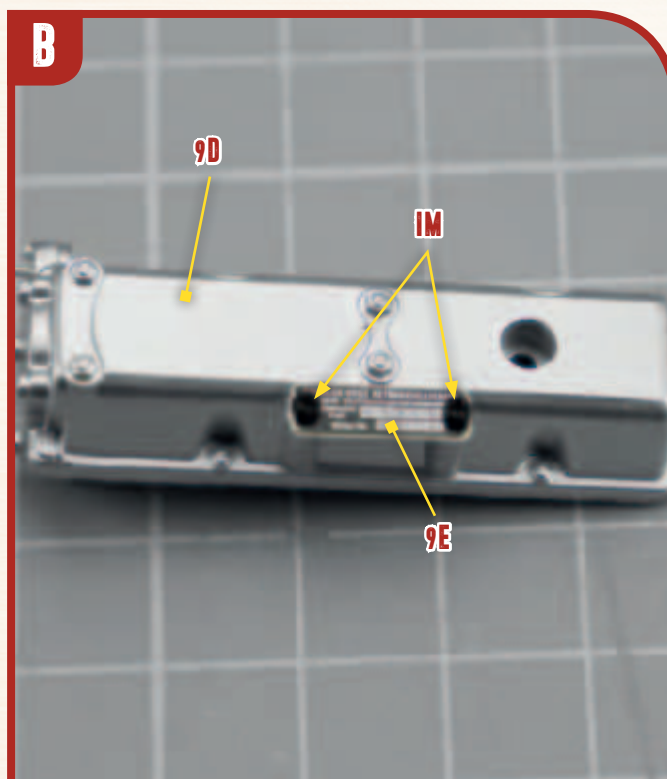
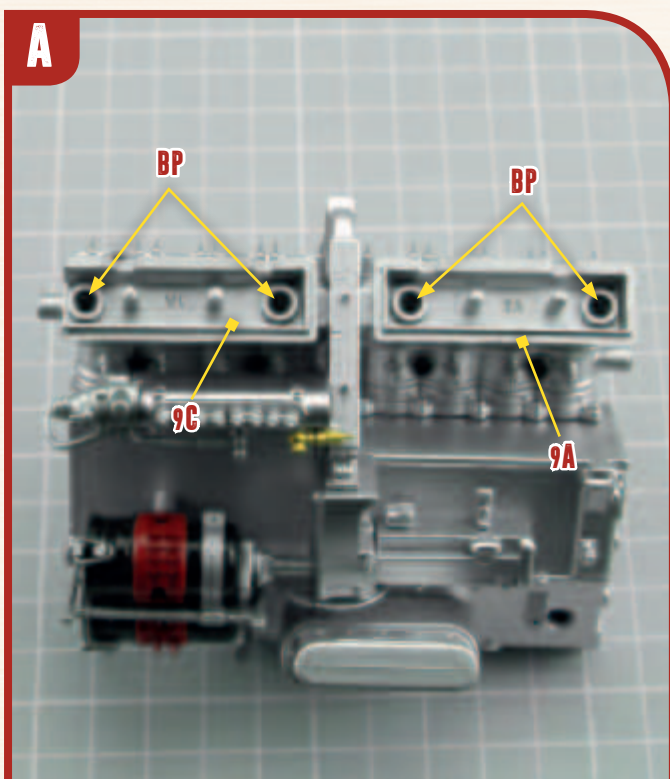
09 PARTS LIST



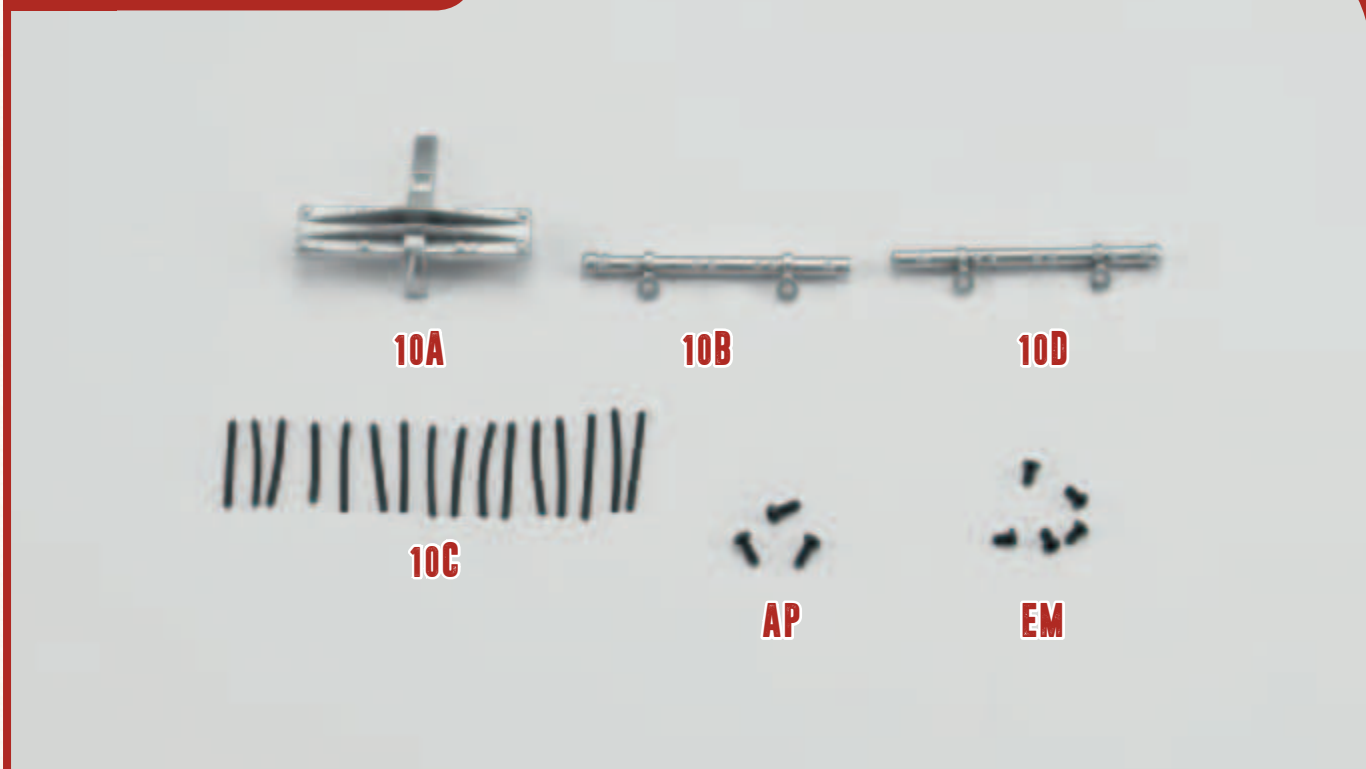
9A Valves cover base 1
9B Valves cover 1
9C Valves cover base 2

9D Valves cover 2
9E Plate

BP 5 screws (2x5mm)
IM 3 screws (1.2x2mm)



10 PARTS LIST

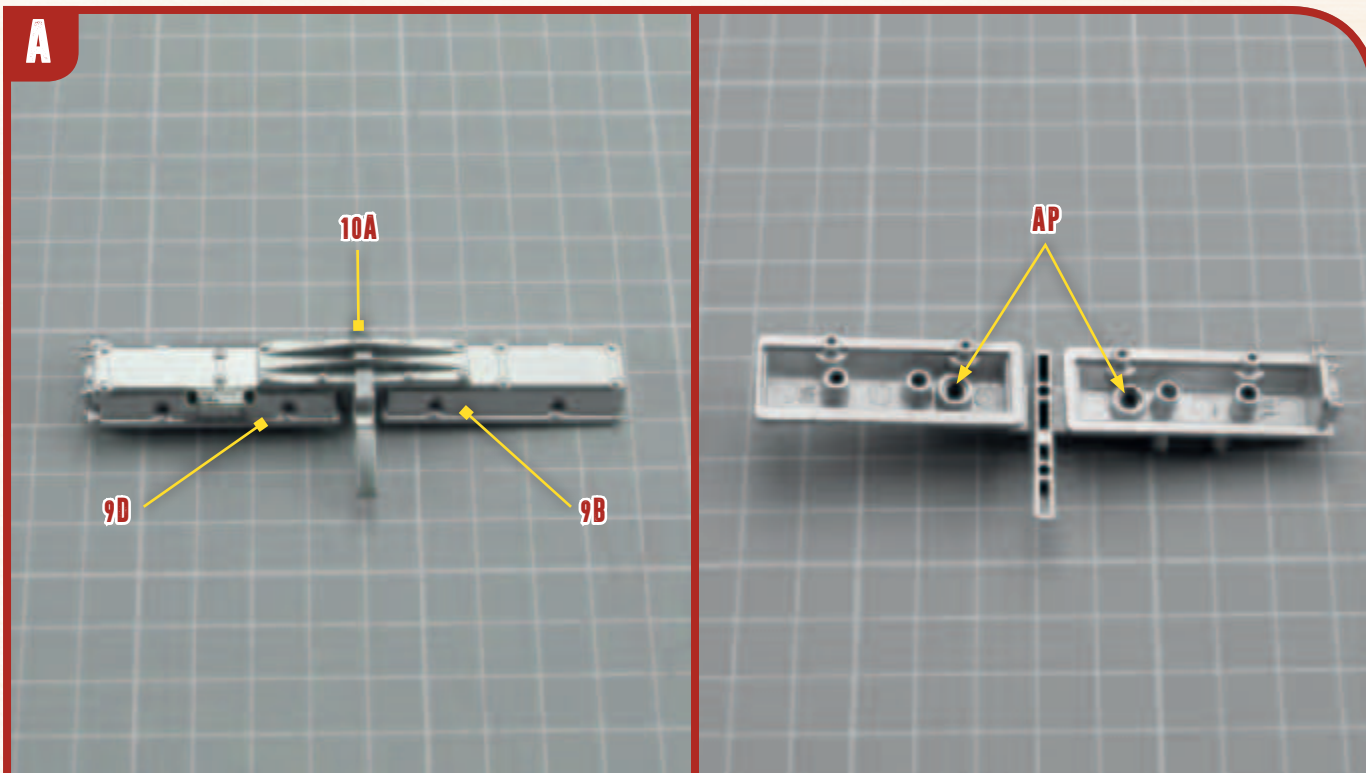


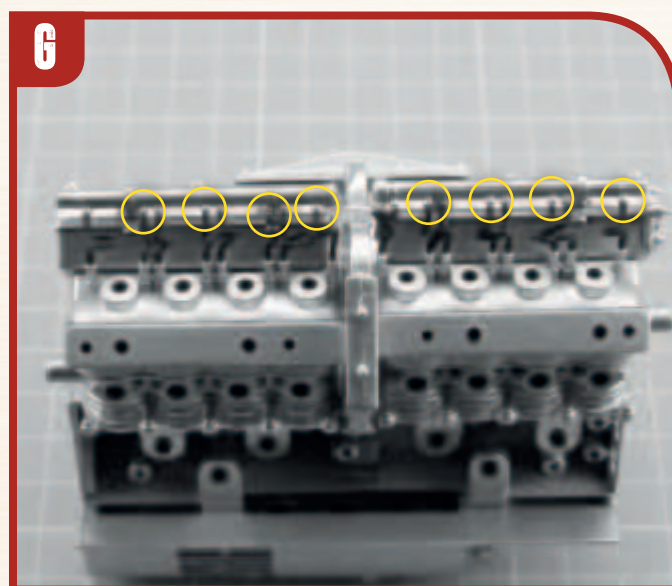
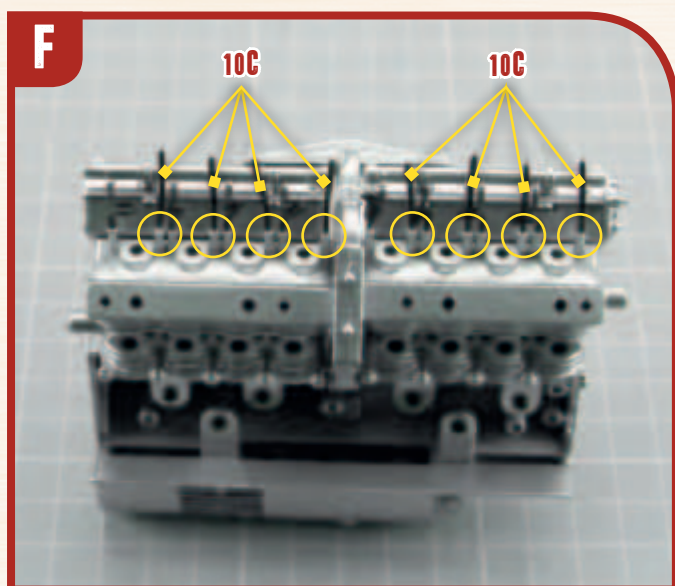
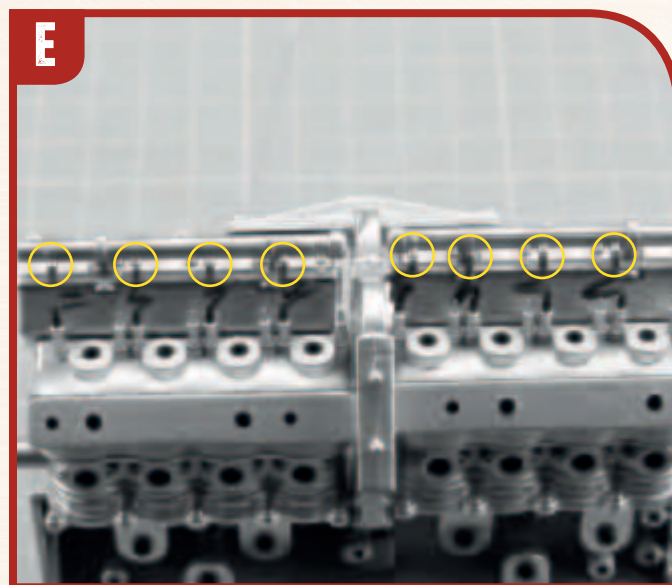
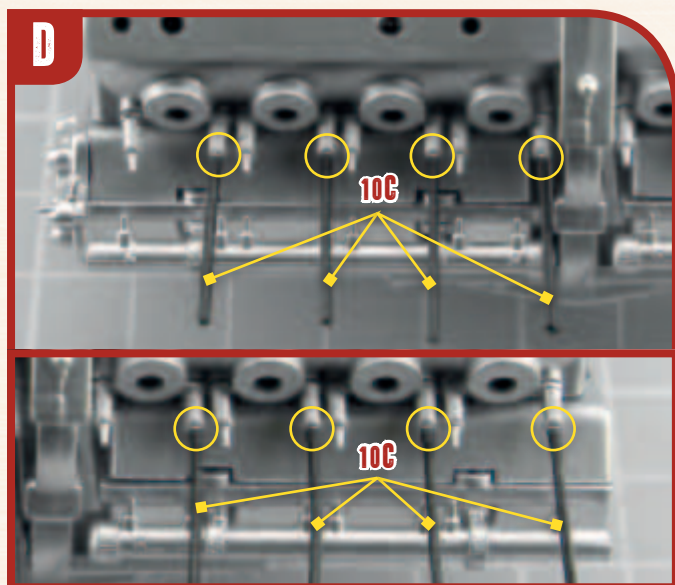
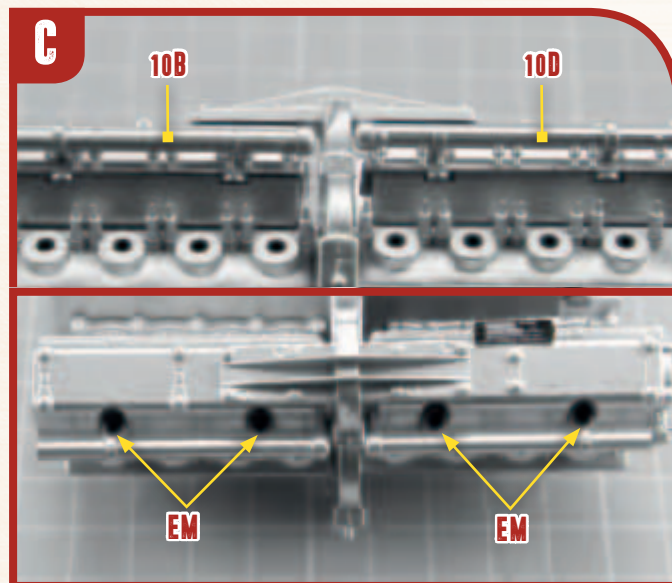
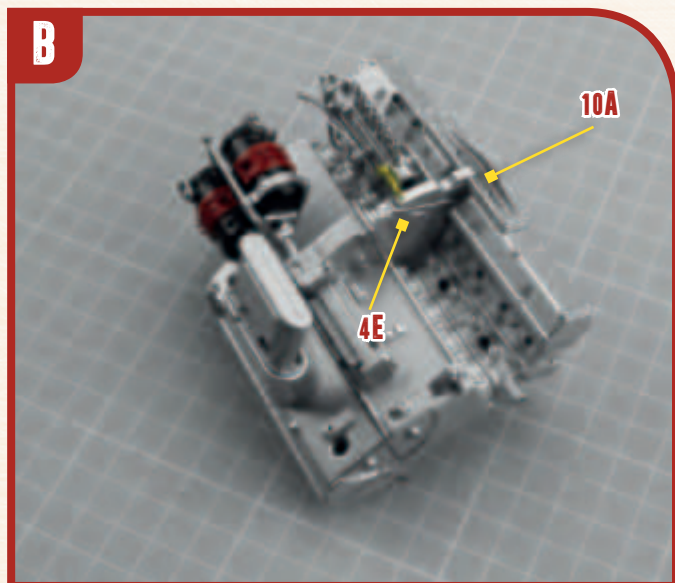
10A Valves covers bracket 1
10B Wires cover 1

10C Wires (x16)
10D Wires cover 2

AP 3 screws (1.7x4mm)
EM 5 screws (1.5x3mm)

A

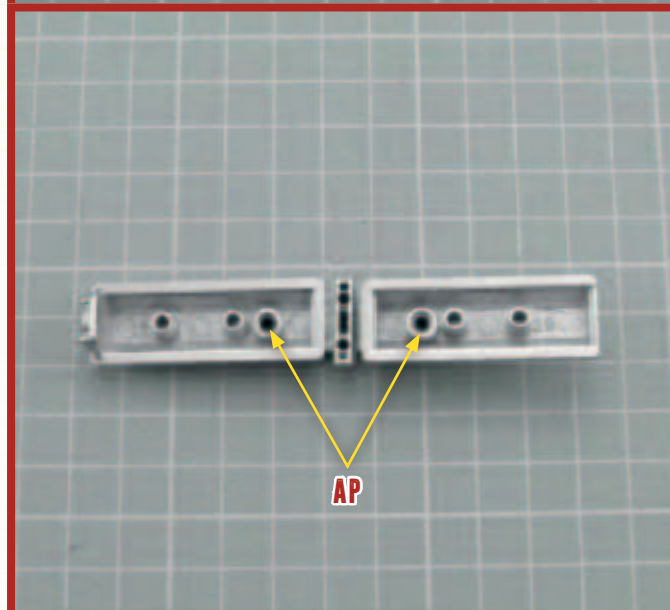
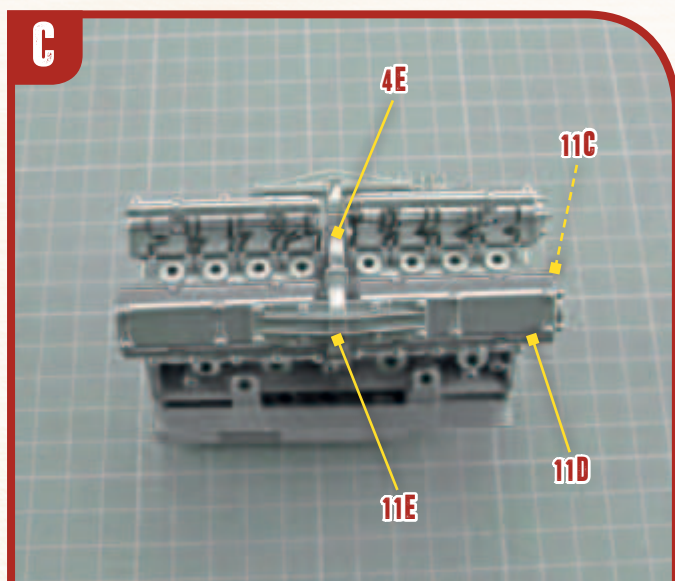
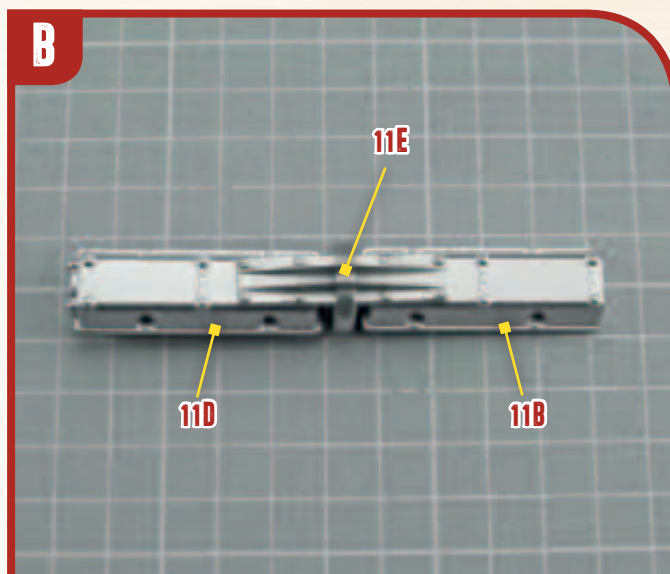
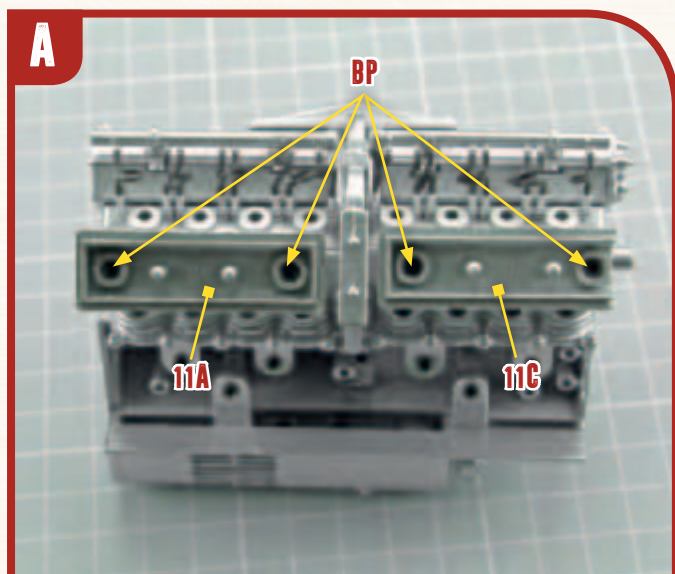




11 PARTS LIST



- 11A Valves cover base 3
- 11B Valves cover 3
- 11C Valves cover base 4
- 11D Valves cover 4
- 11E Valves cover bracket 2
- AP 3 screws (1.7x4mm)
- BP 5 screws (2x5mm)



12 PARTS LIST

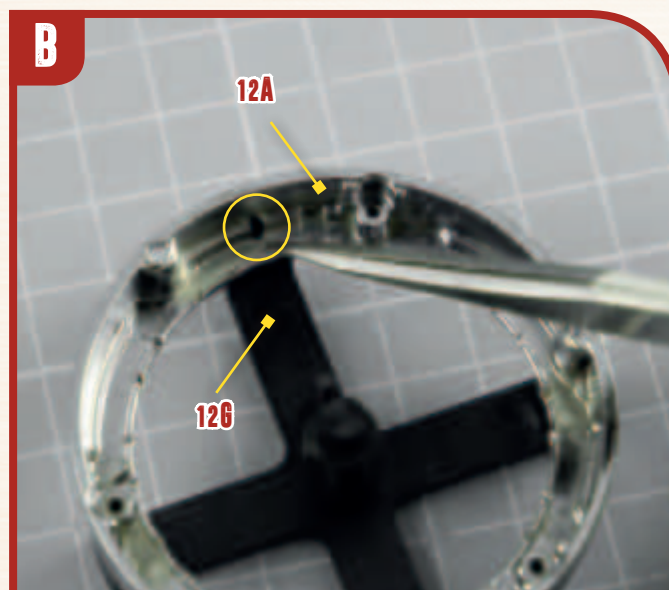
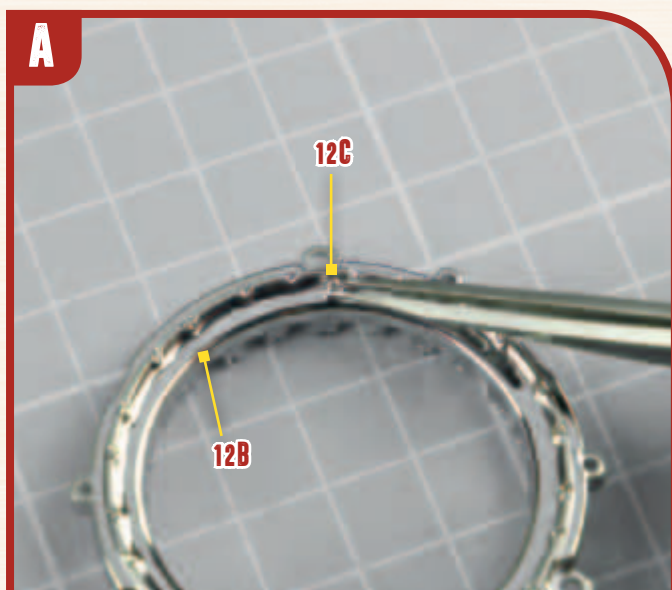
REGULAR ASSEMBLY



12A Outer rim
12B Central ring 1
12C Inflation valve
12D Hub 1
12E Spokes 1

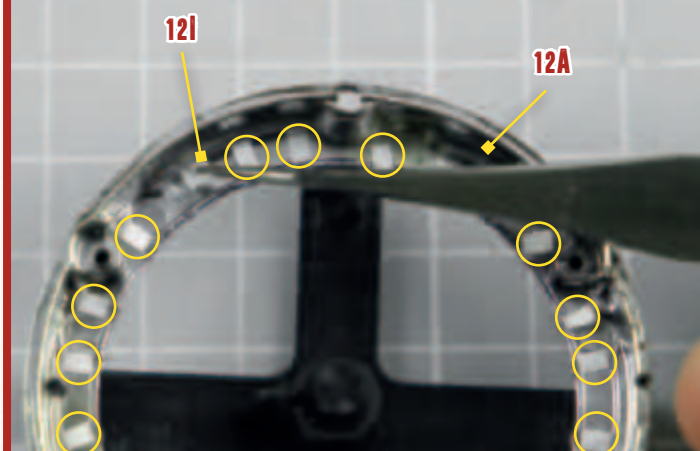
12F Spokes 2
12G Jig
12H Central ring 2
12I Double-sided tape
12J Tweezers

AP 5 screws (1.7x4mm)
CM 4 screws (1.7x4mm)

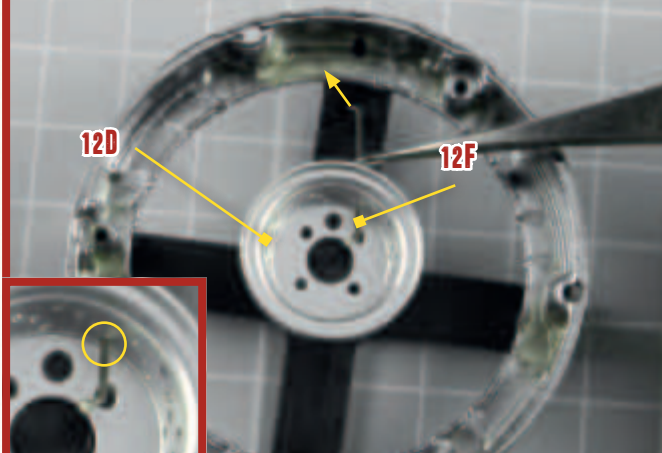


C

Apply 24 pieces of double-sided tape 12I to 12A's inner profile and tear off their top sheets.

**D****E**

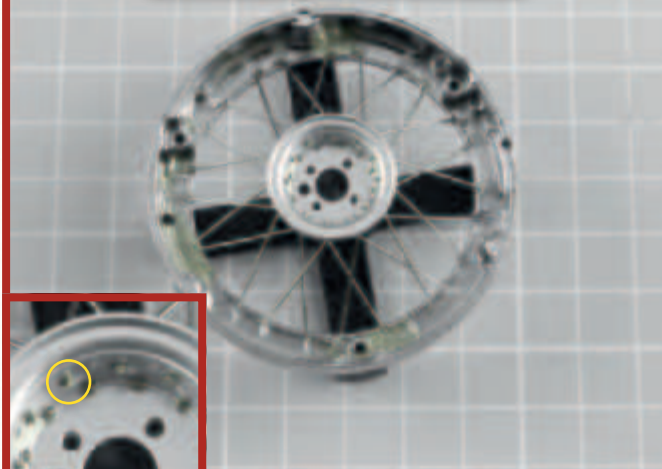
Insert 1 spoke 12F through a hole in 12D's first level (counting from the bottom).

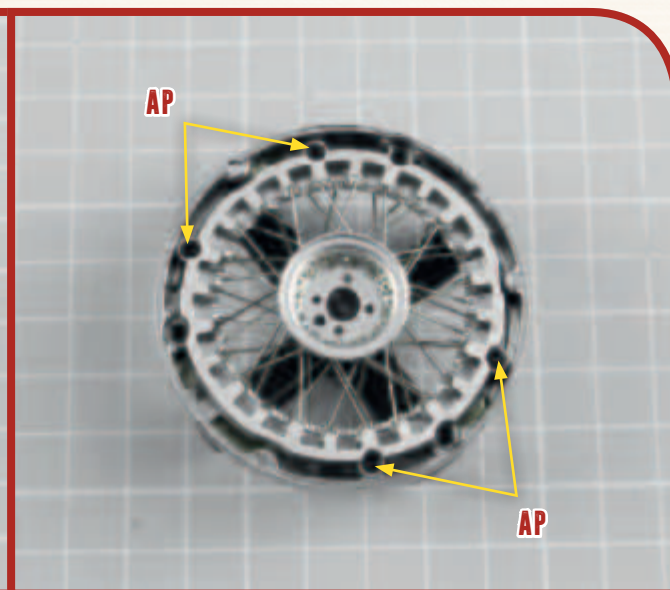
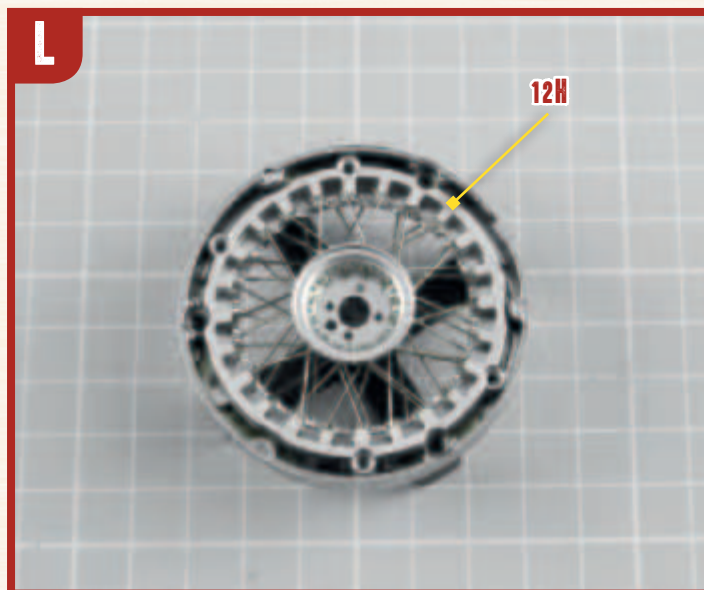
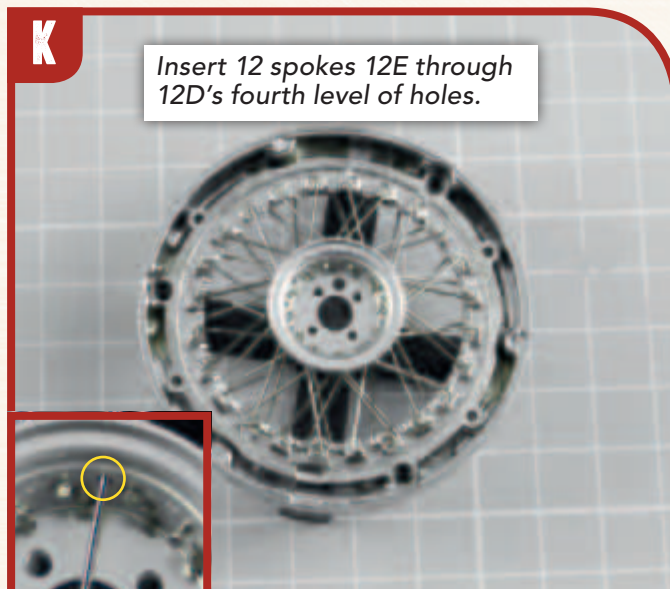
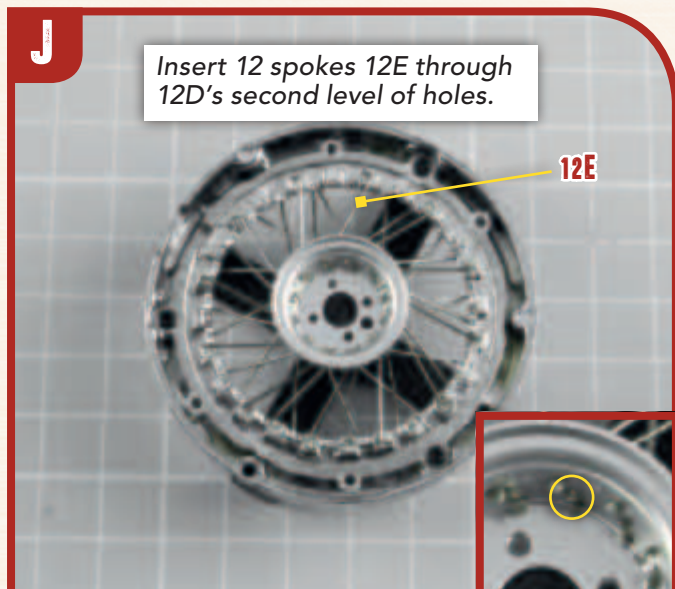
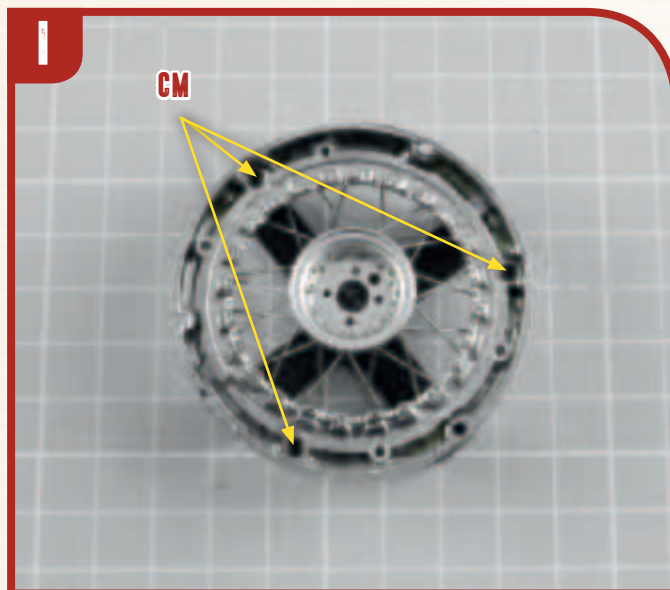
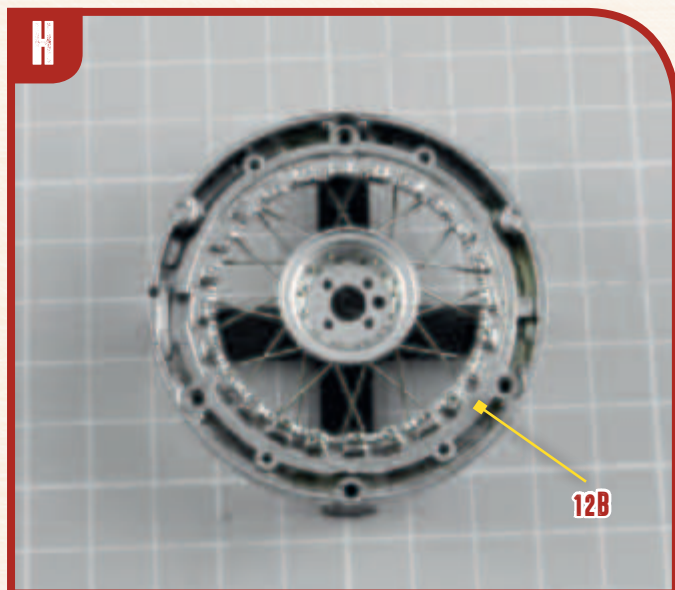
**F**

Repeat the process with other 11 spokes 12F.

**G**

Insert 12 spokes 12F through 12D's third level of holes.





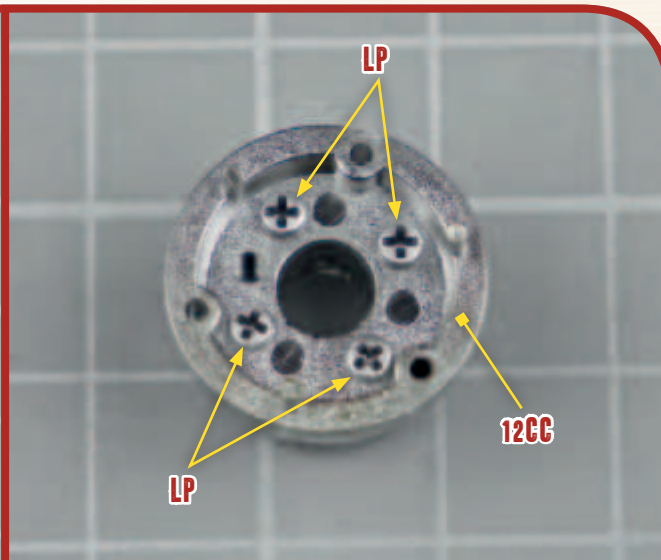
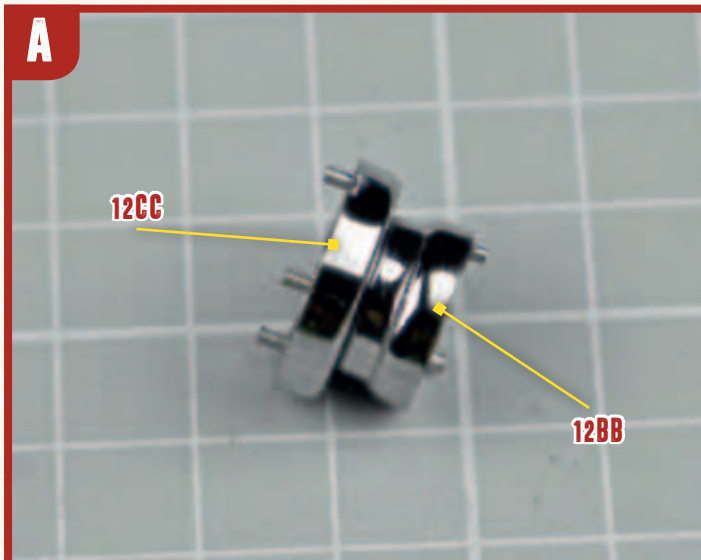
12B PARTS LIST

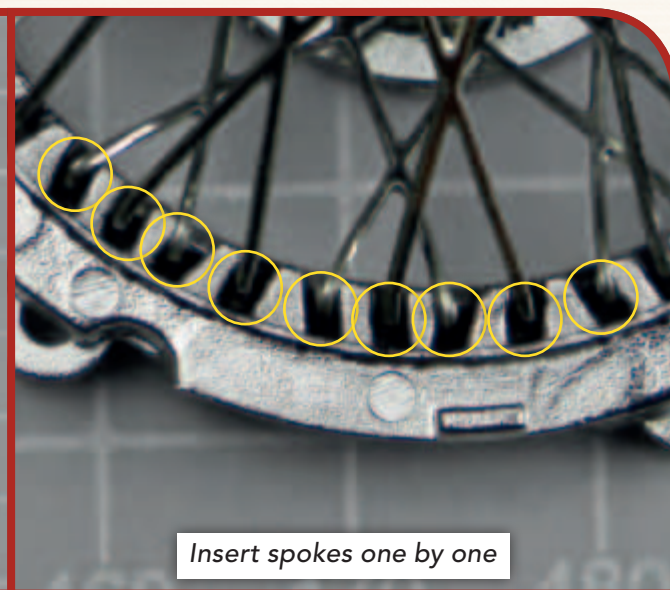
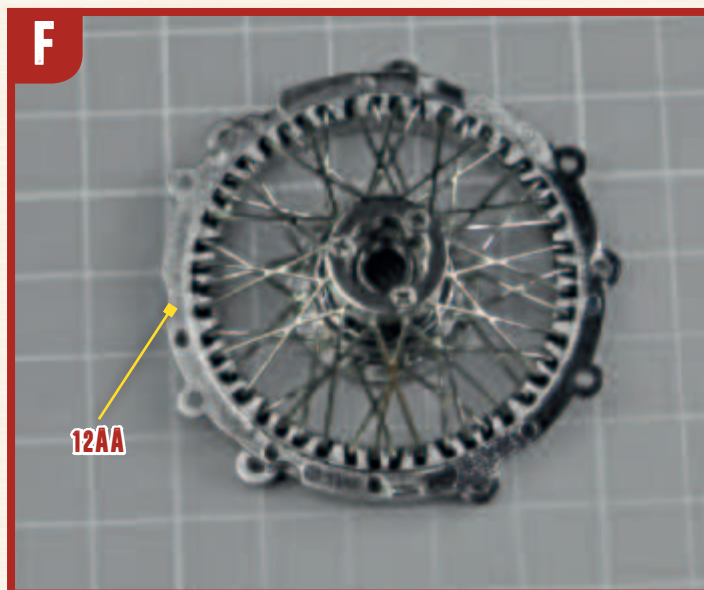
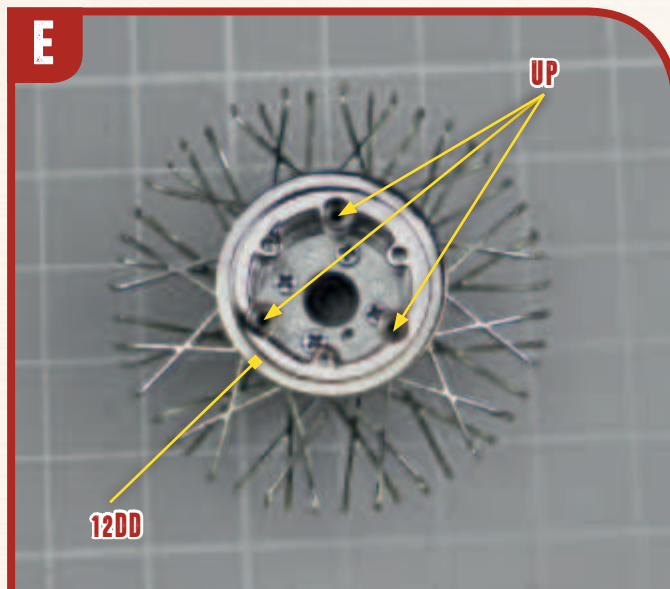
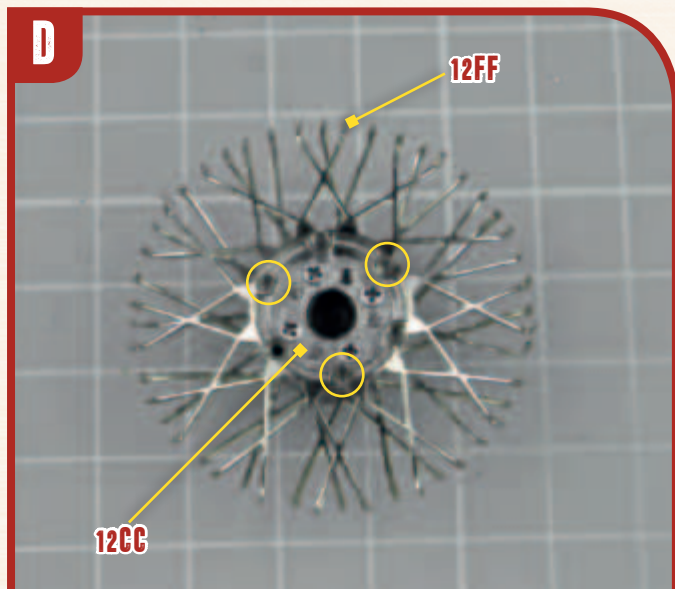
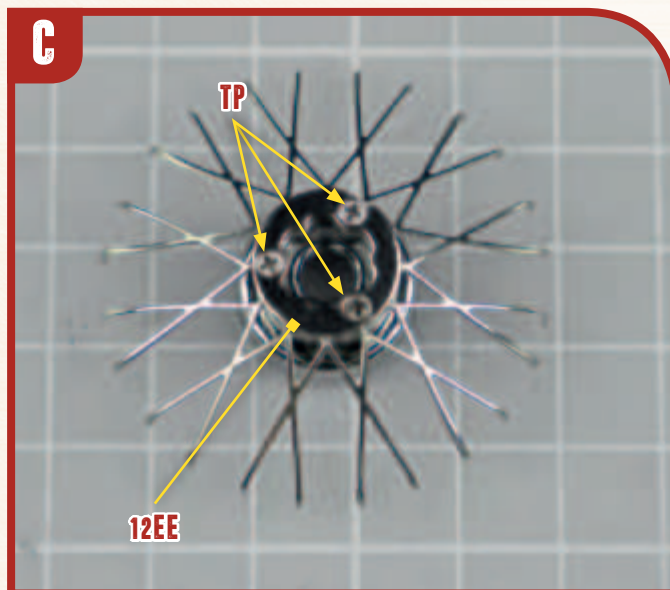
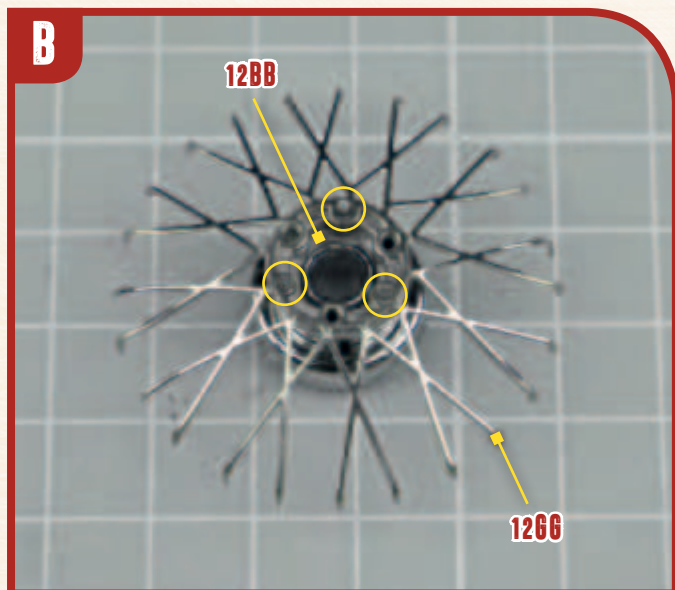
EASY ASSEMBLY



12AA	Central ring 1	12GG	Spokes 2
12BB	Hub 1	12HH	Tweezers
12CC	Hub 2		
12DD	Hub 3		
12EE	Hub 4		
12FF	Spokes 1		
		LP	5 screws (1.5x3mm)
		TP	4 screws (1.5x5mm)
		UP	4 screws (1.7x4mm)

A





13 PARTS LIST

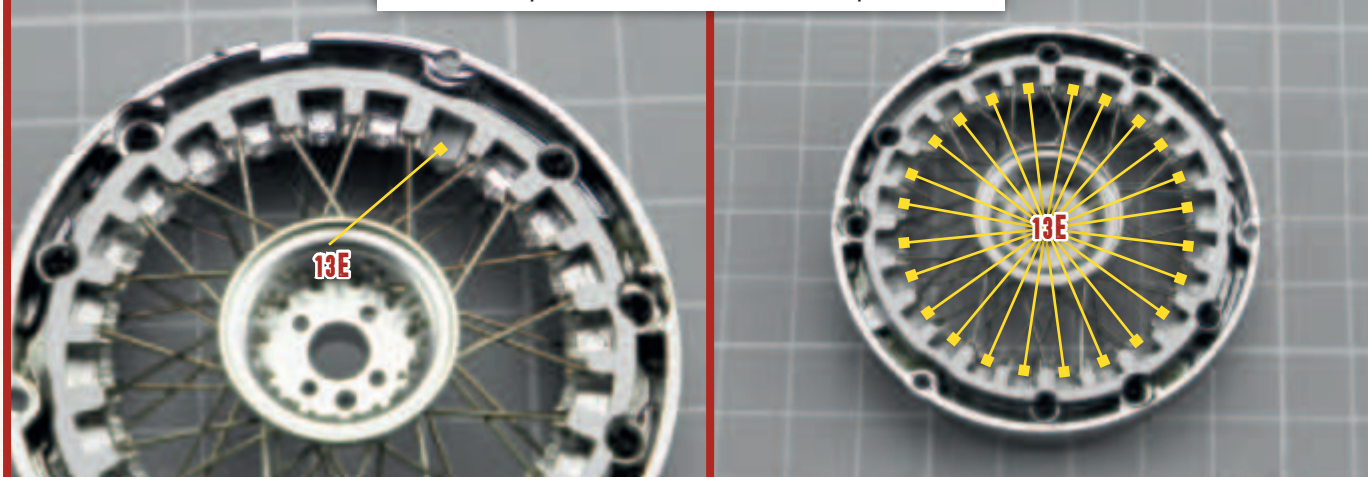
REGULAR ASSEMBLY

- 13A** Inner rim
- 13B** Central ring 3
- 13C** Hub 2
- 13D** Spokes 3
- 13E** Double-sided tape
- CM** 4 screws (1.7x4mm)
- KM** 5 screws (1.5x5mm)

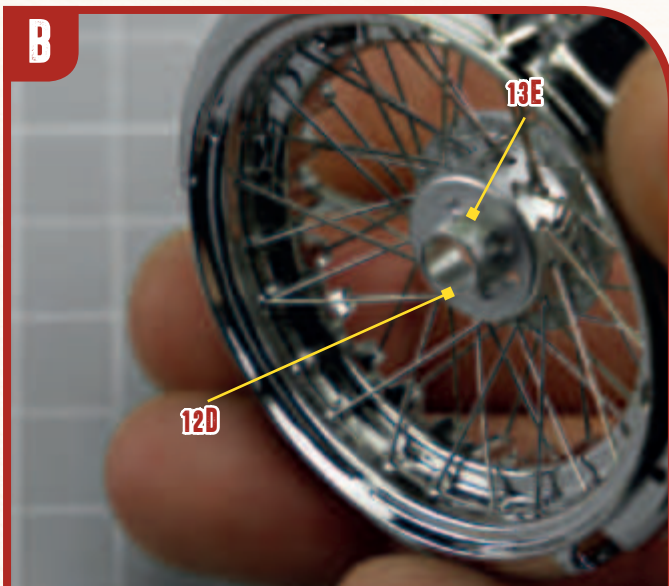


A

Apply 24 pieces of double-sided tape 13E to 12B's inner profile and tear off their top sheets.

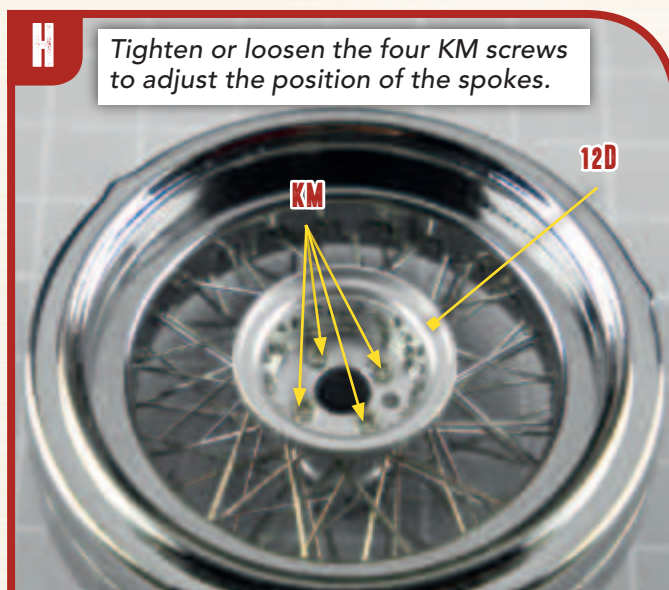
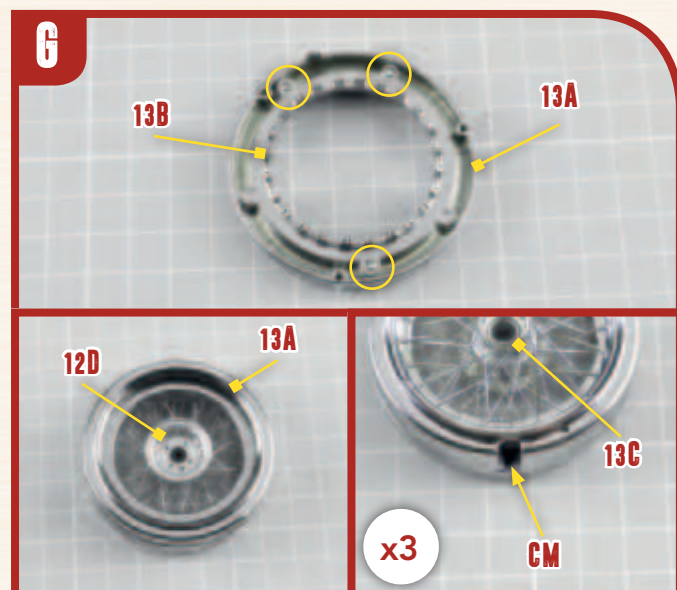
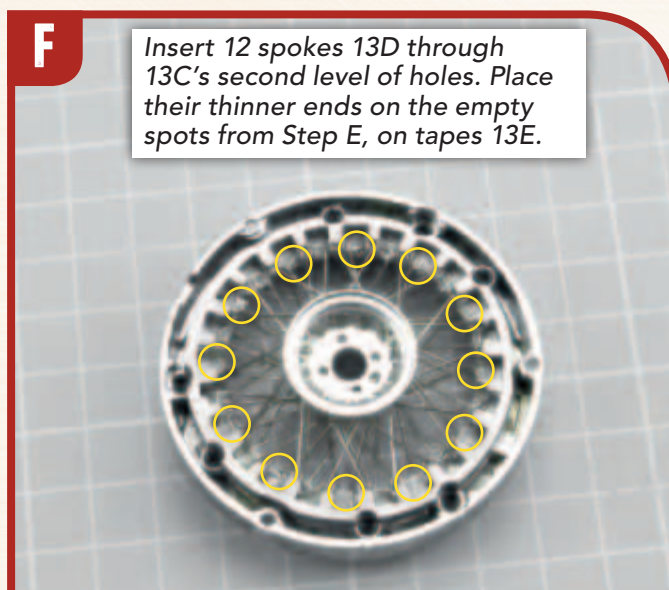
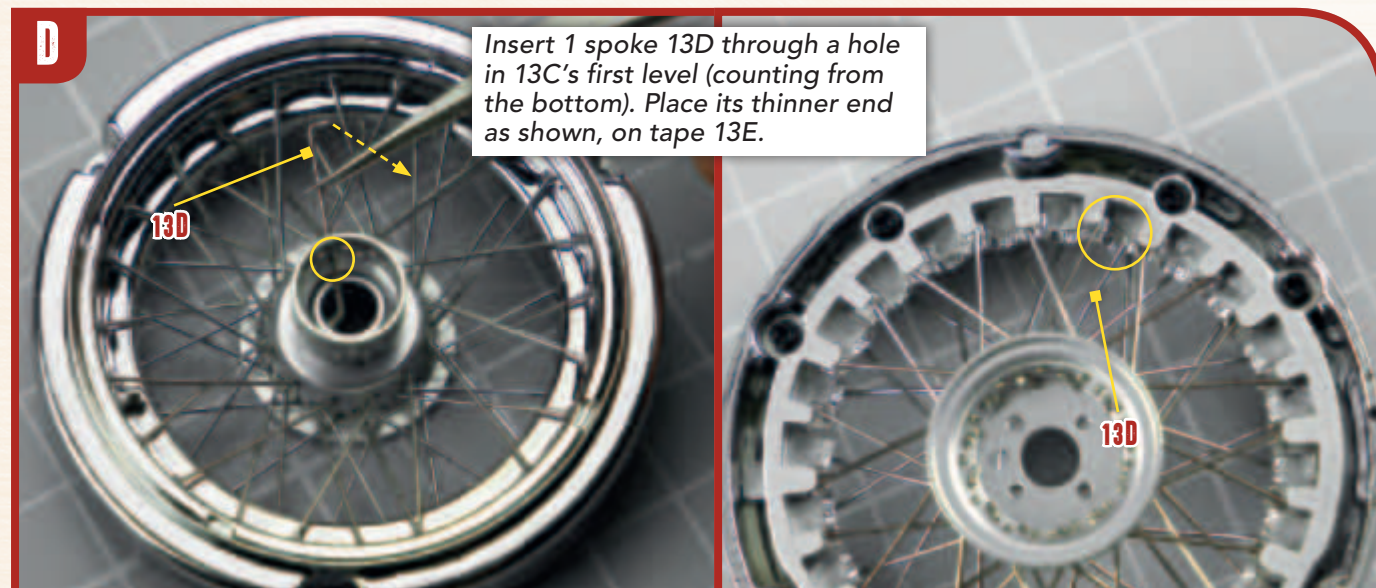


B



C





13B PARTS LIST

EASY ASSEMBLY

- 13AA** Outer rim
- 13BB** Inner rim
- 13CC** Central ring 2
- 13DD** Inflation valve

- AP** 5 screws (1.7x4mm)
- CM** 8 screws (1.7x4mm)



13AA



13BB



13CC

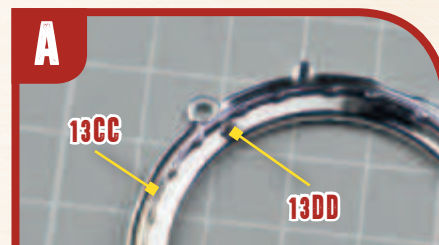
13DD



AP



CM

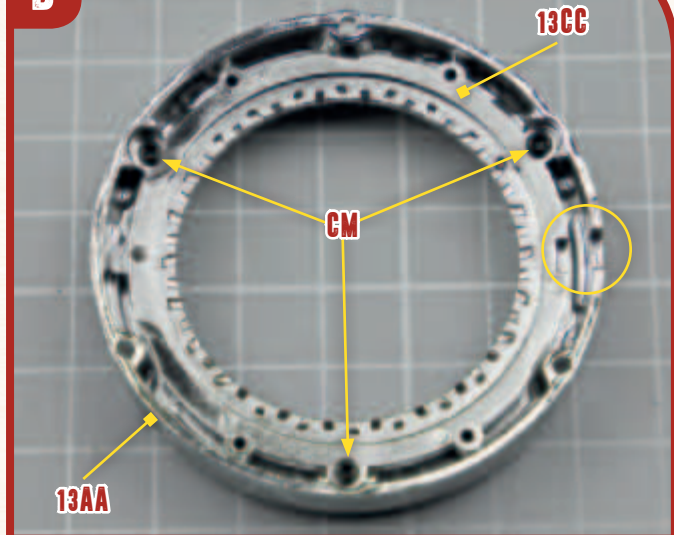


A

13CC

13DD

B

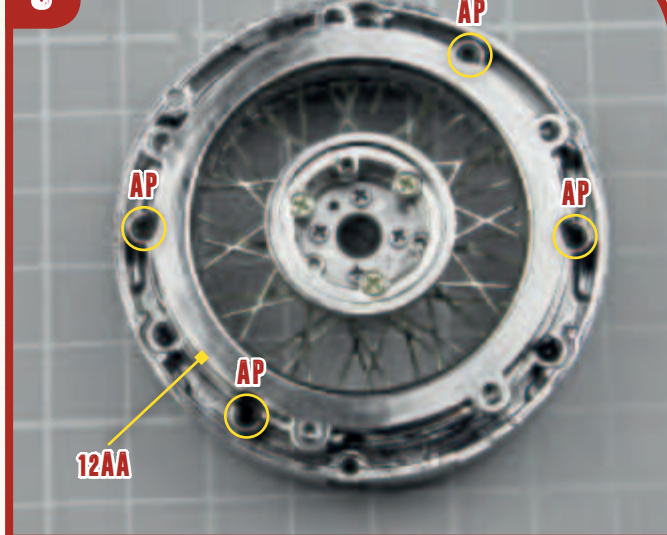


13CC

CM

13AA

C



AP

AP

AP

12AA

AP

D



13BB

E



CM

CM

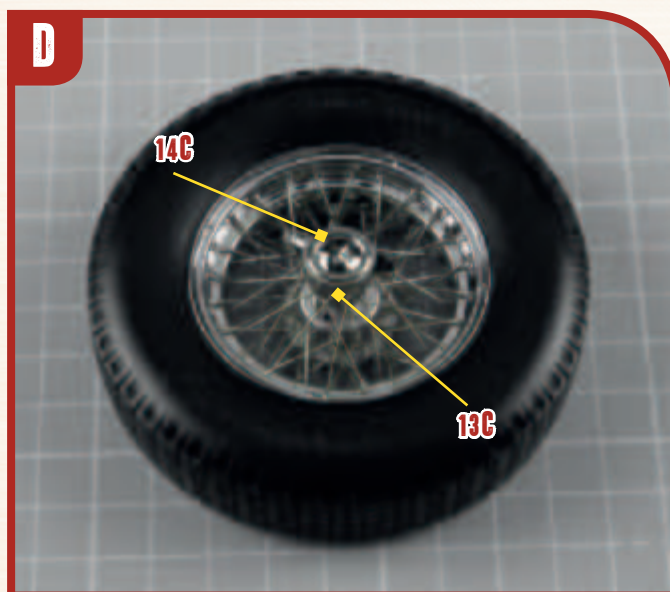
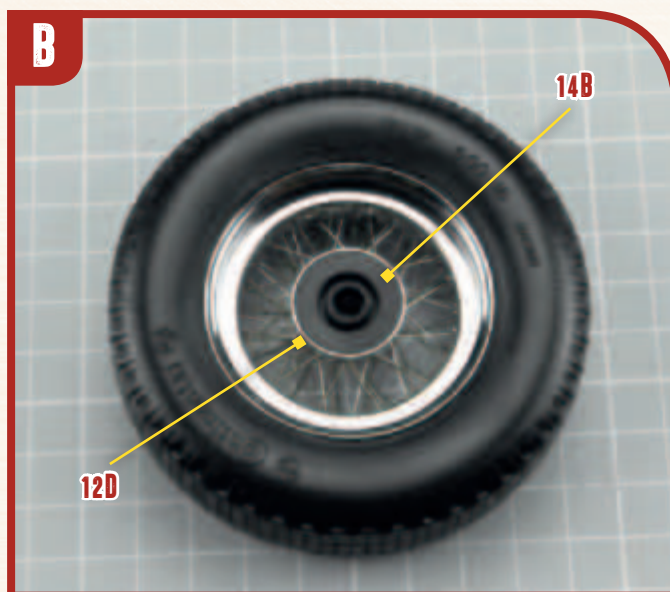
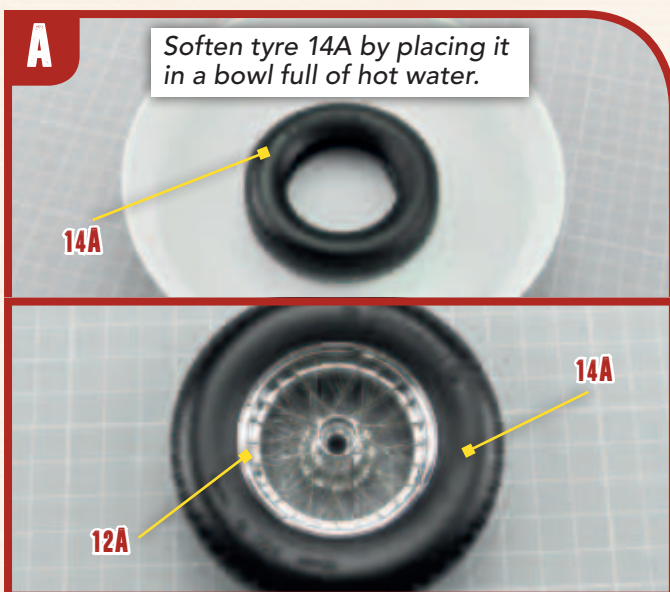
13AA

CM

14 PARTS LIST

REGULAR ASSEMBLY

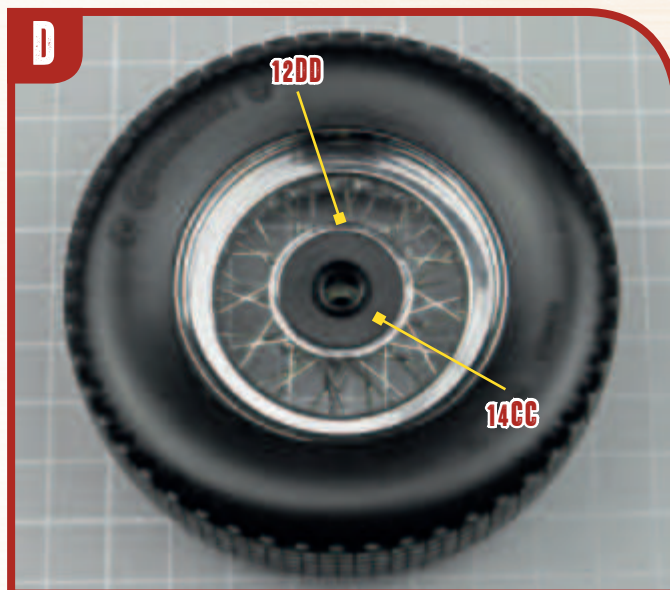
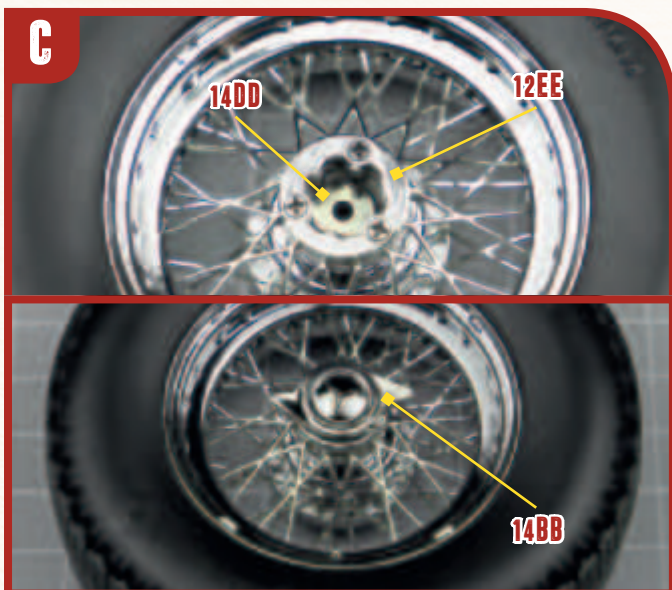
- 14A Tyre
- 14B Hub 3
- 14C Hubcap
- 14D Washer ring



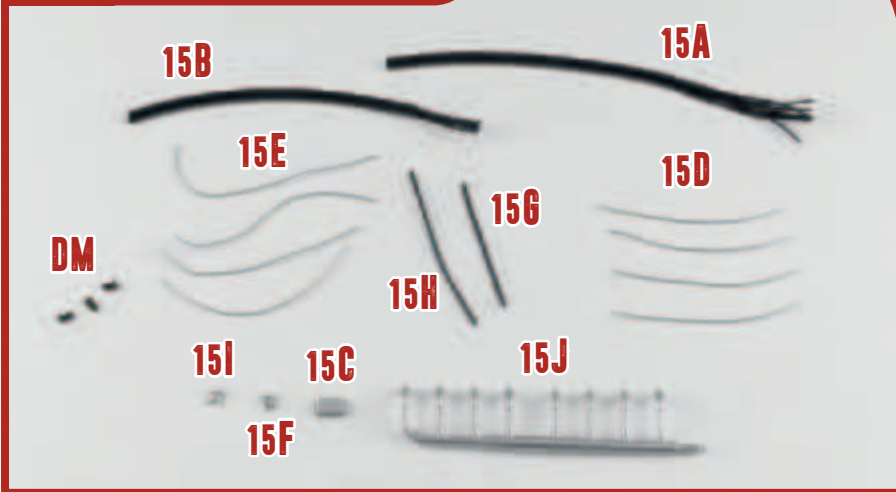
14B PARTS LIST

EASY ASSEMBLY

- 14AA Tyre
- 14BB Hubcap
- 14CC Hub 5
- 14DD Washer ring



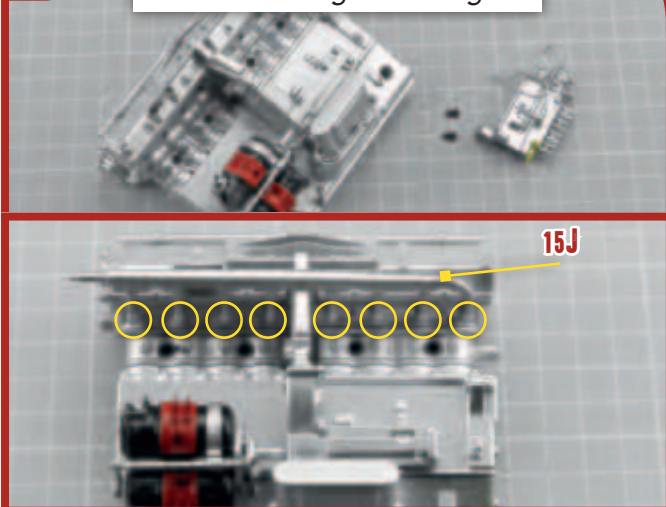
15 PARTS LIST



- 15A** Spark plugs wire 1
- 15B** Spark plugs wire 2
- 15C** Fuel lines fairlead
- 15D** Fuel lines 1 (x4)
- 15E** Fuel lines 2 (x4)
- 15F** Oil hoses connector 1
- 15G** Oil hose 1
- 15H** Oil hose 2
- 15I** Oil hoses connector 2
- 15J** Engine cooling duct
- DM** 3 screws (2x4mm)

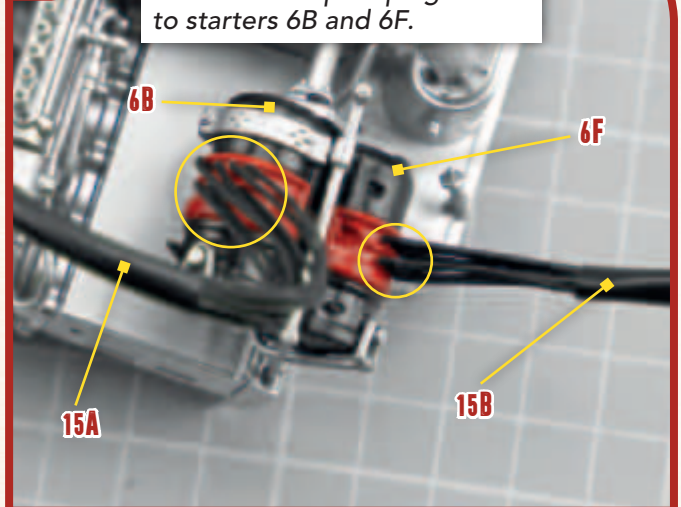
A

Temporarily remove fuel pump before attaching 15J to engine.

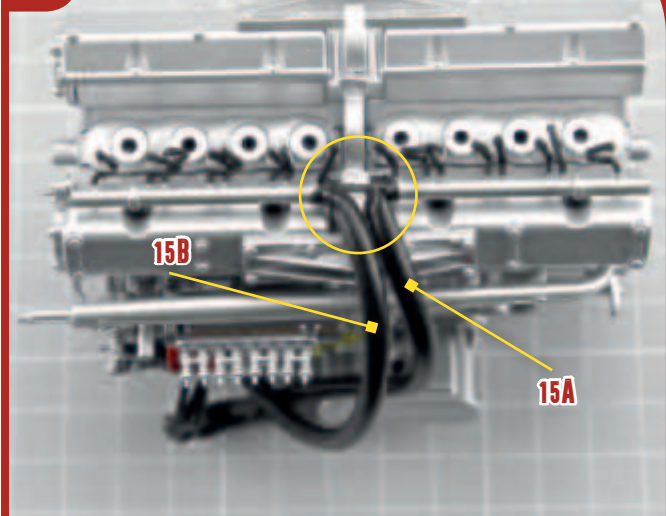


B

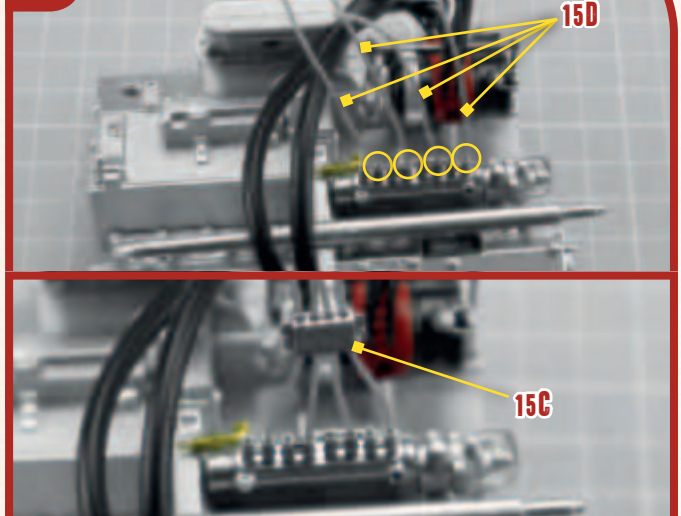
Reattach fuel pump to engine and connect spark plugs wires to starters 6B and 6F.

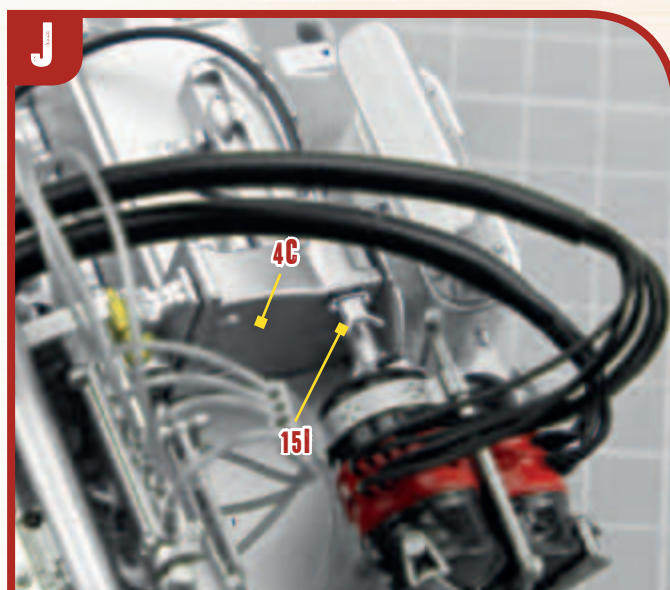
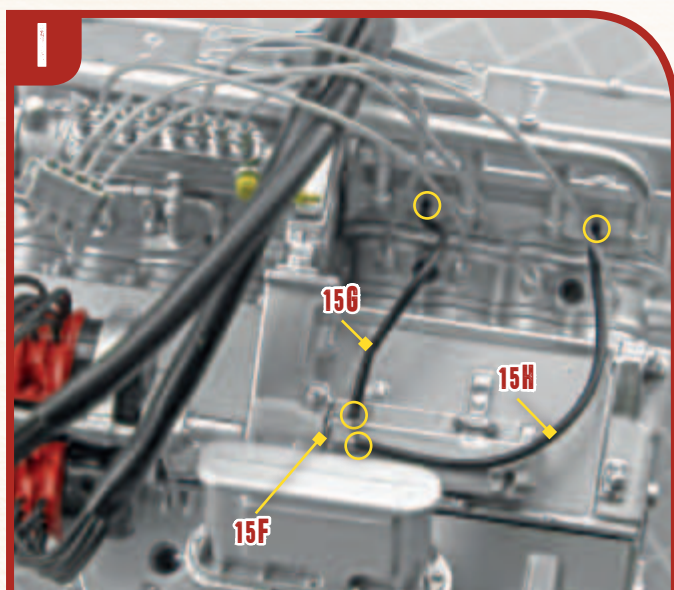
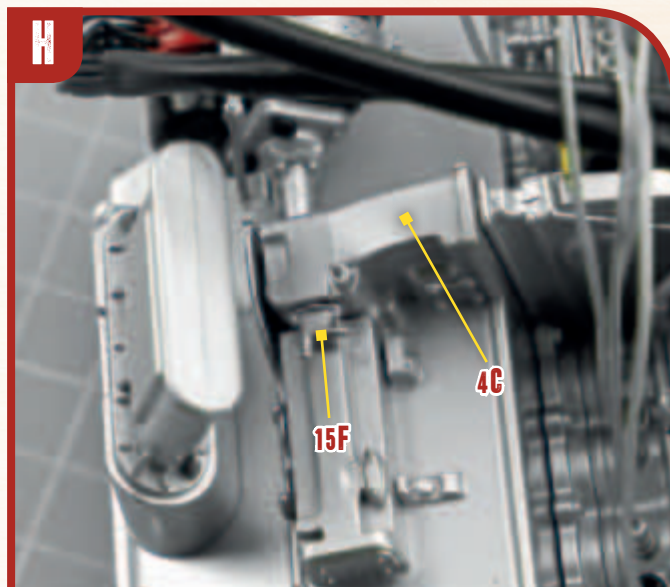
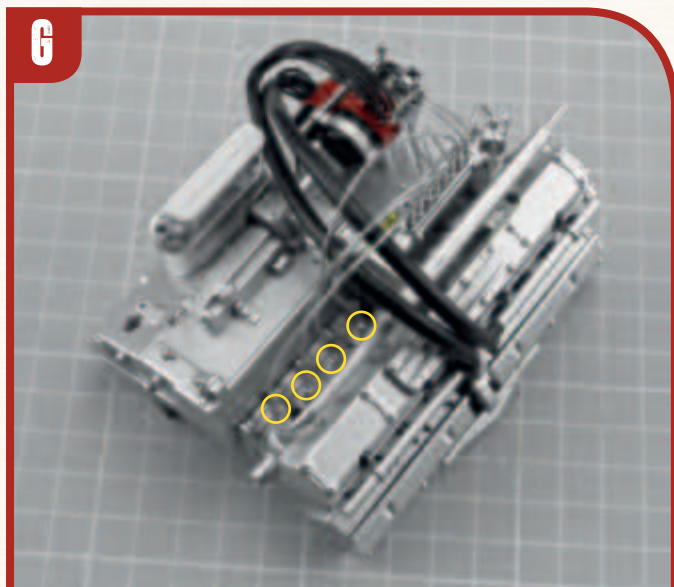
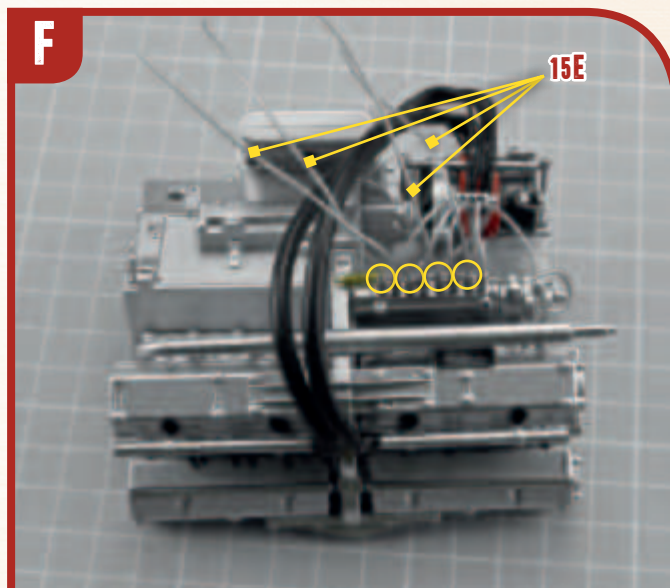
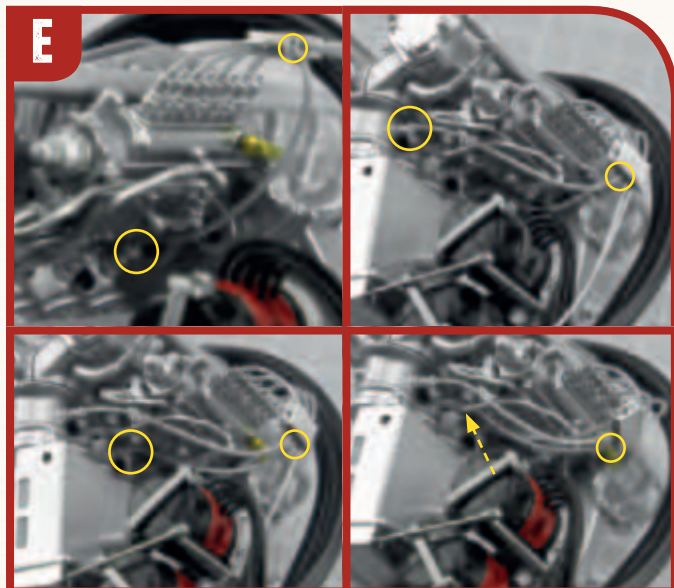


C



D





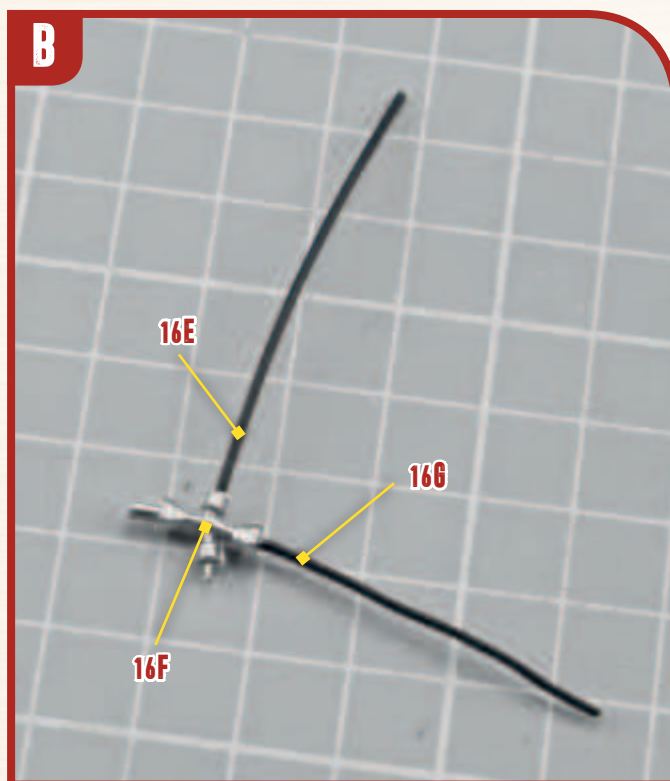
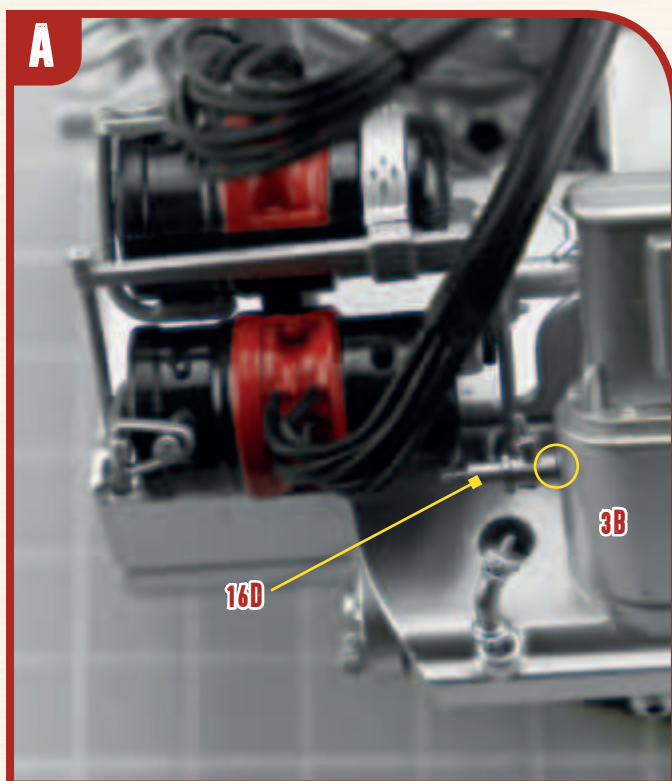
16 PARTS LIST

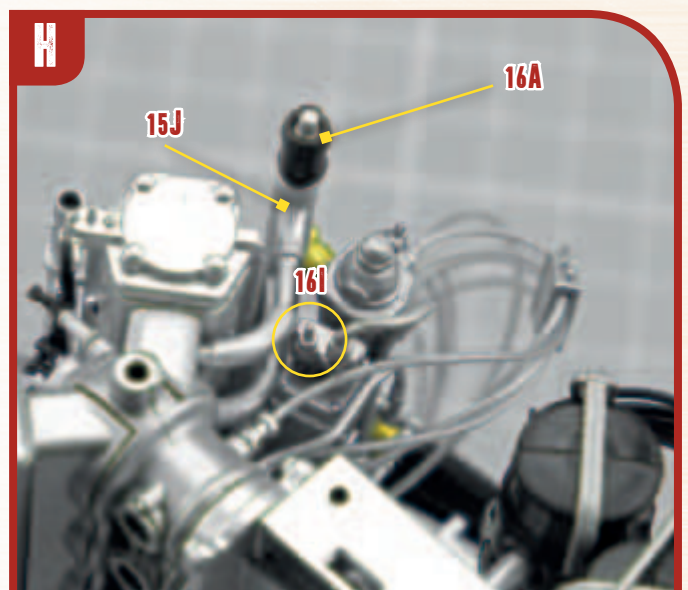
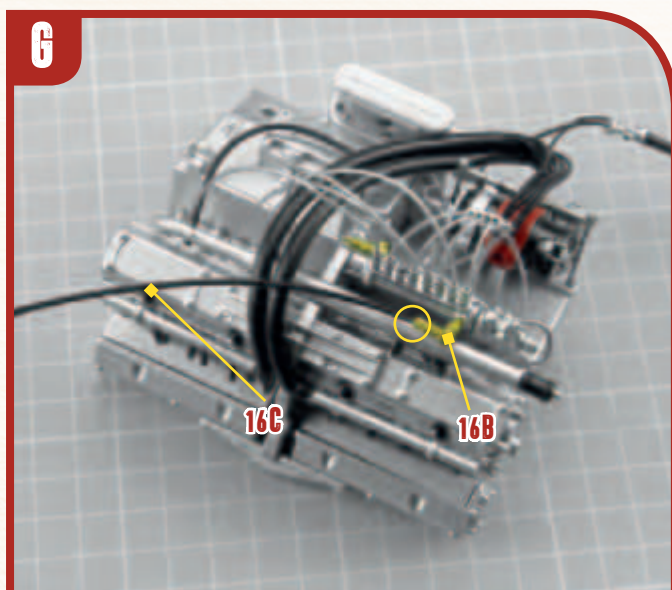
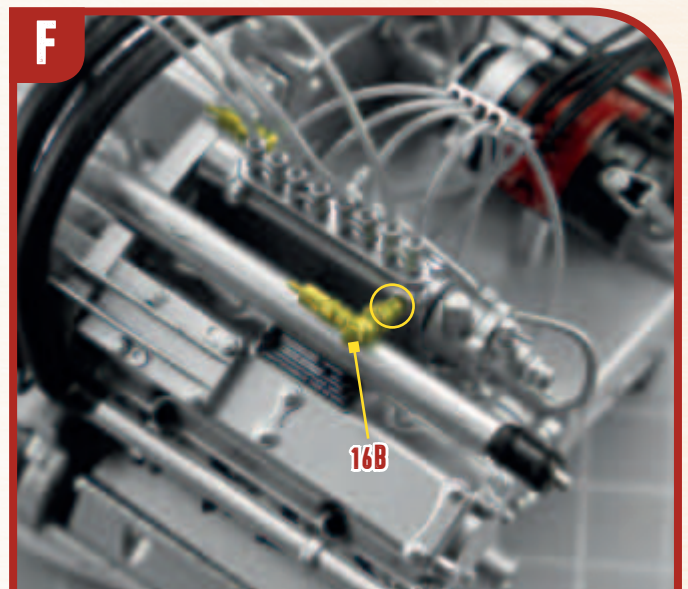
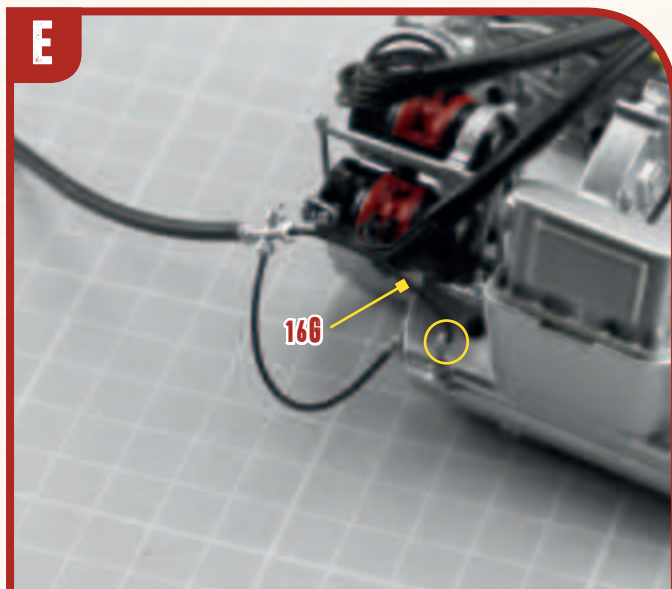
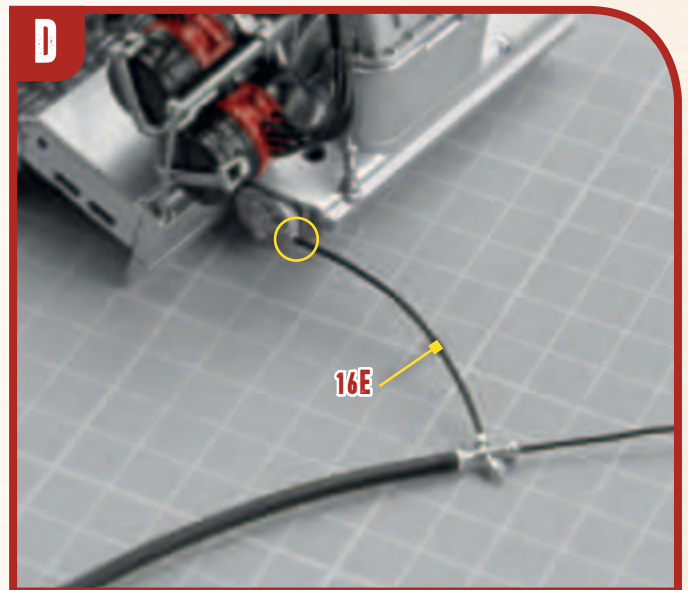
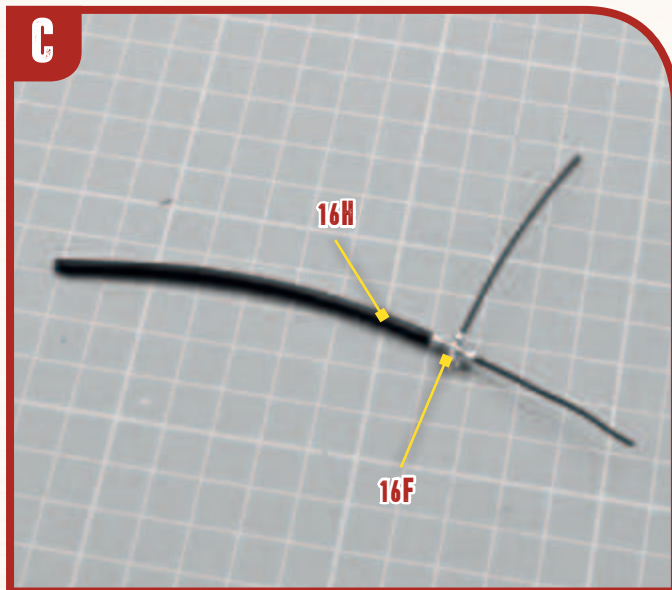


16A Expansion tank connector
16B Fuel pump connector
16C Fuel pump line

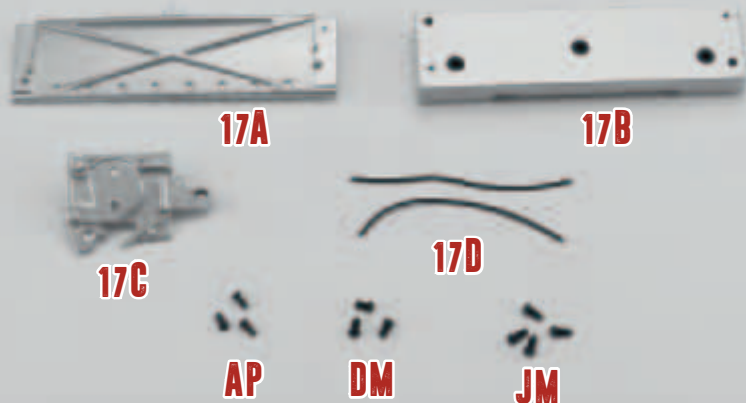
16D Oil hoses connector 3
16E Oil hose 3
16F Oil hoses connector 4

16G Oil hose 4
16H Oil hose 5
16I Detail



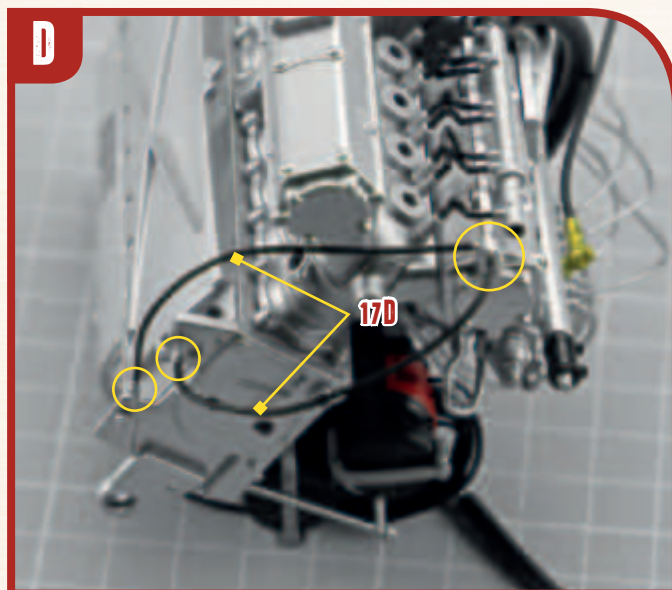
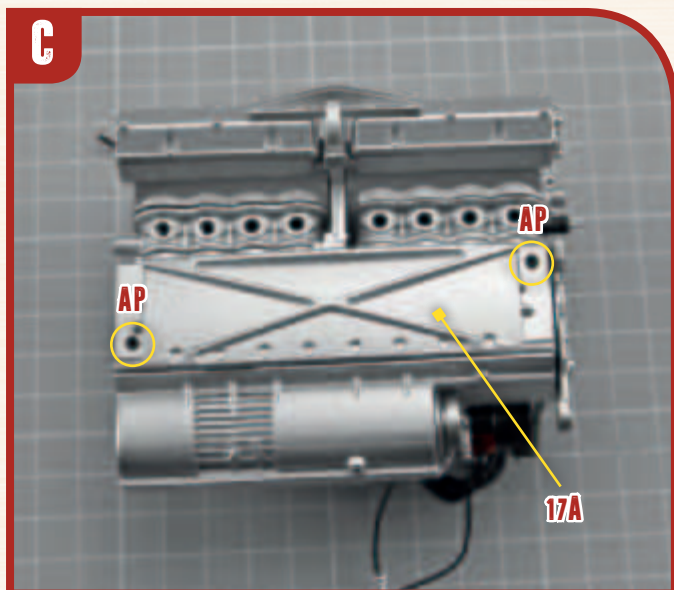
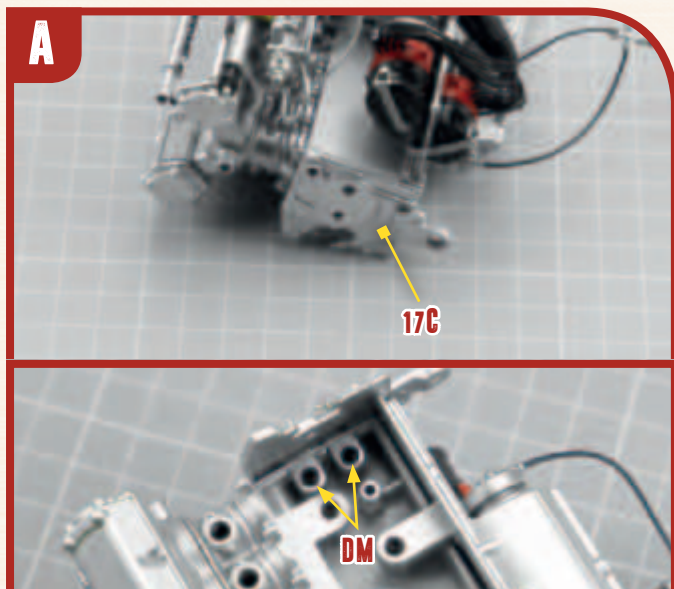


17 PARTS LIST

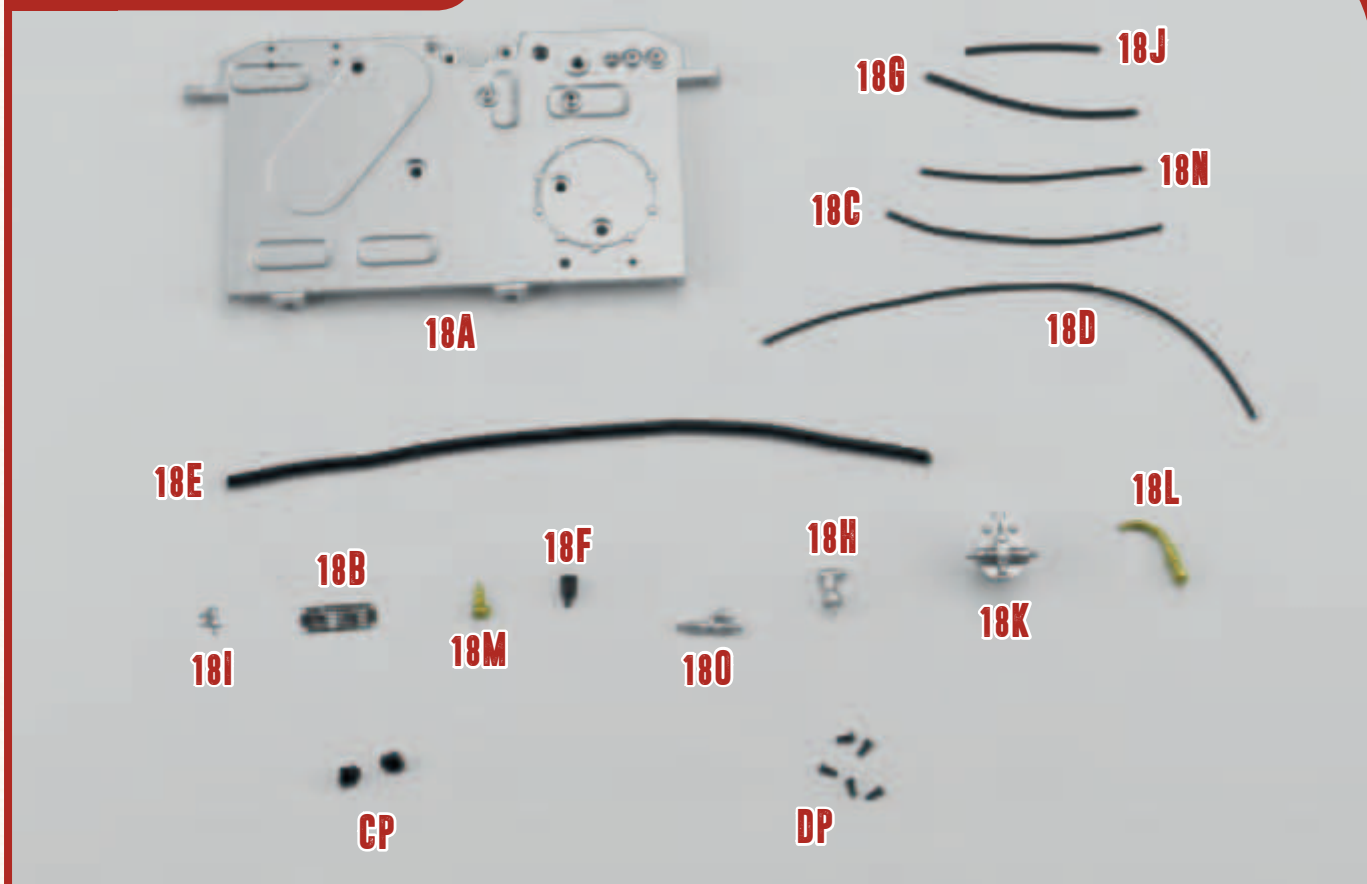


17A Engine side cover part A
17B Engine side cover part B
17C Engine front cover
17D Oil hoses 6 (x2)

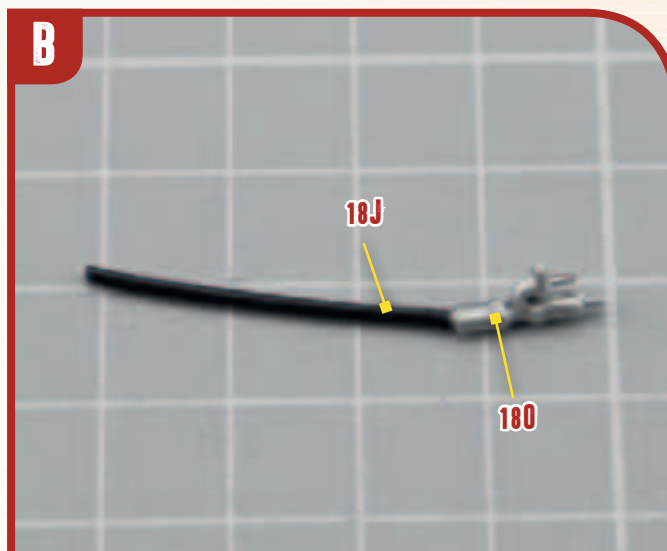
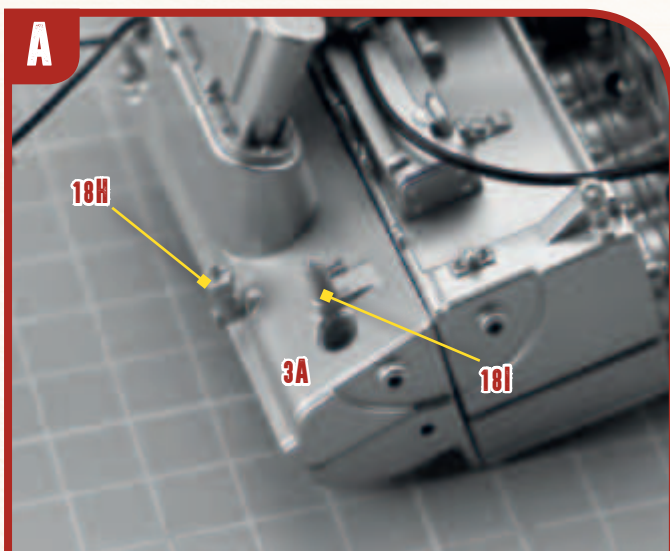
AP 3 screws (1.7x4mm)
DM 3 screws (2x4mm)
JM 4 screws (2x5mm)

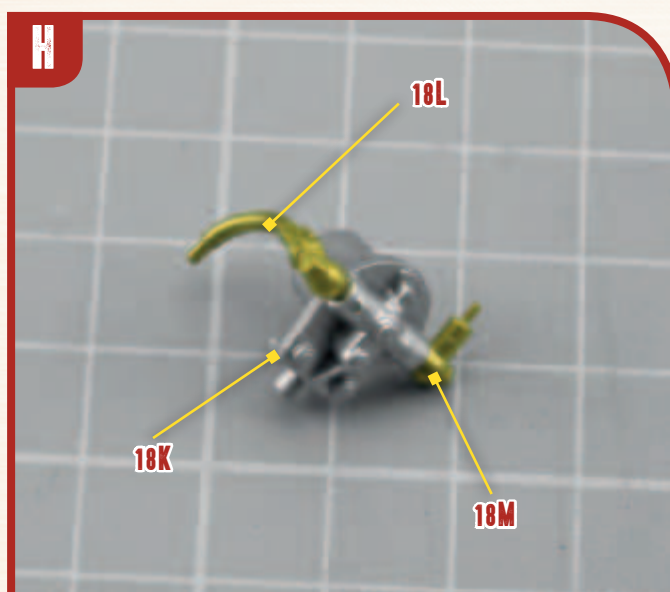
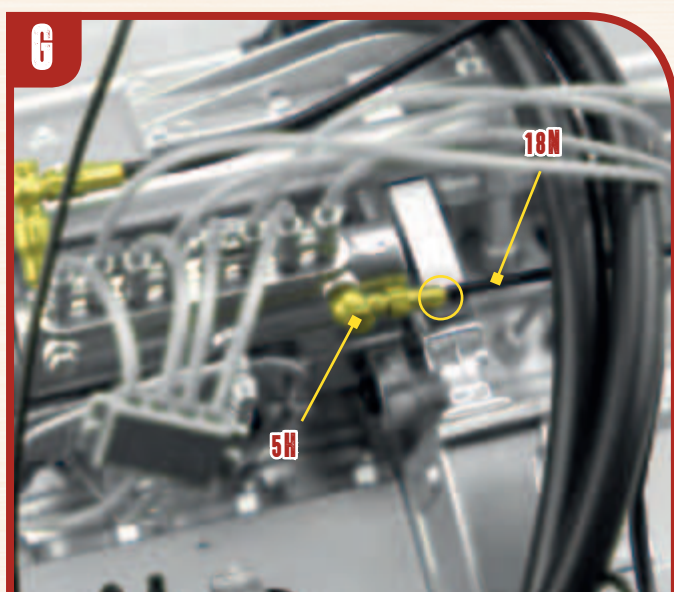
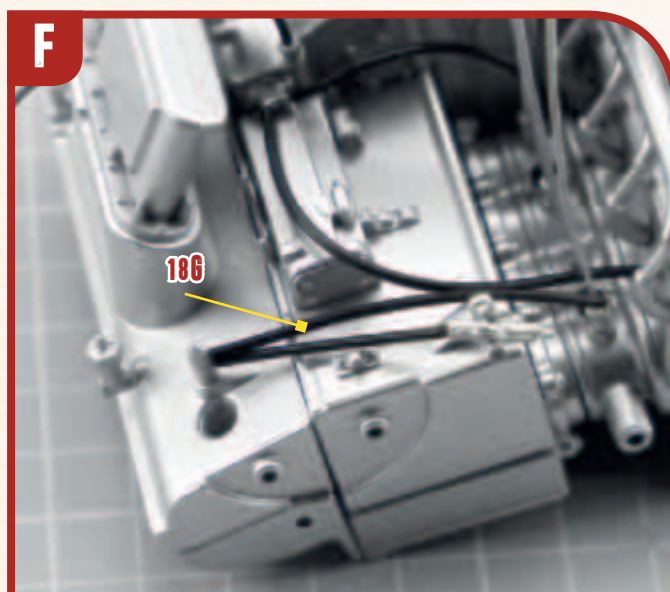
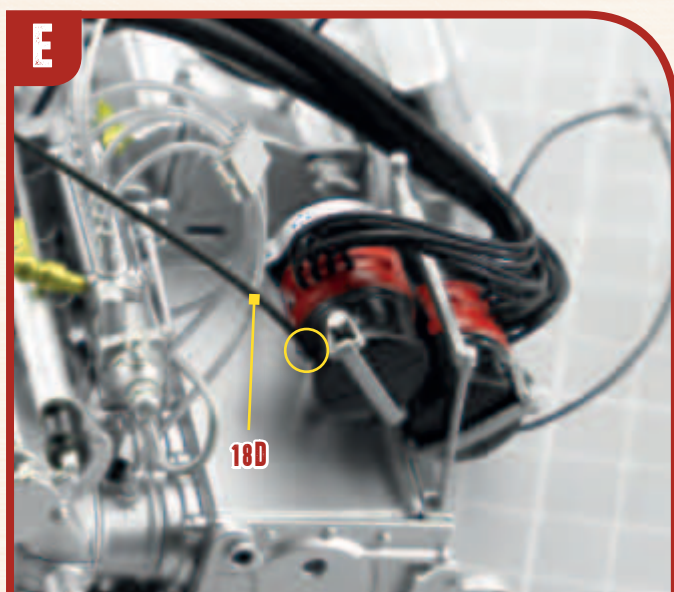
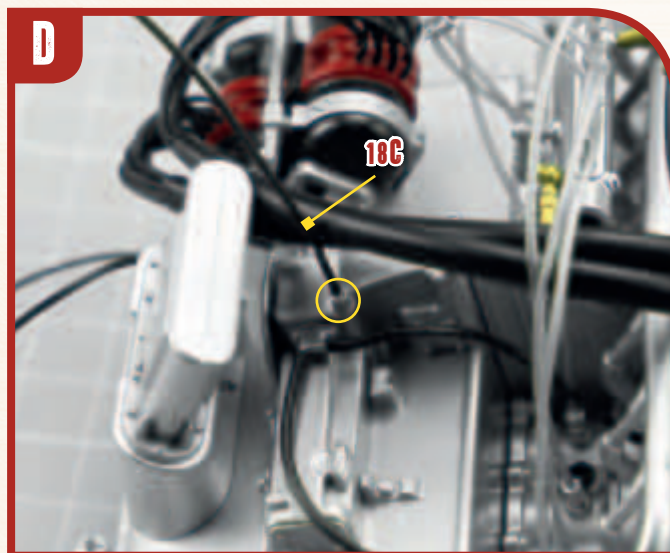
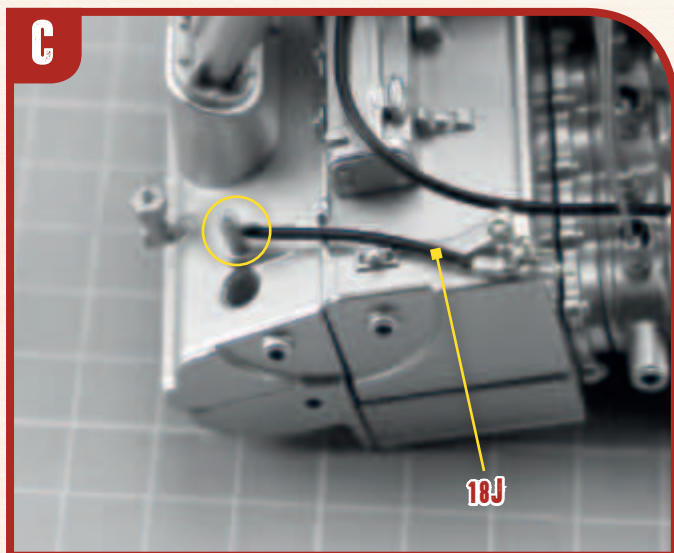


18 PARTS LIST

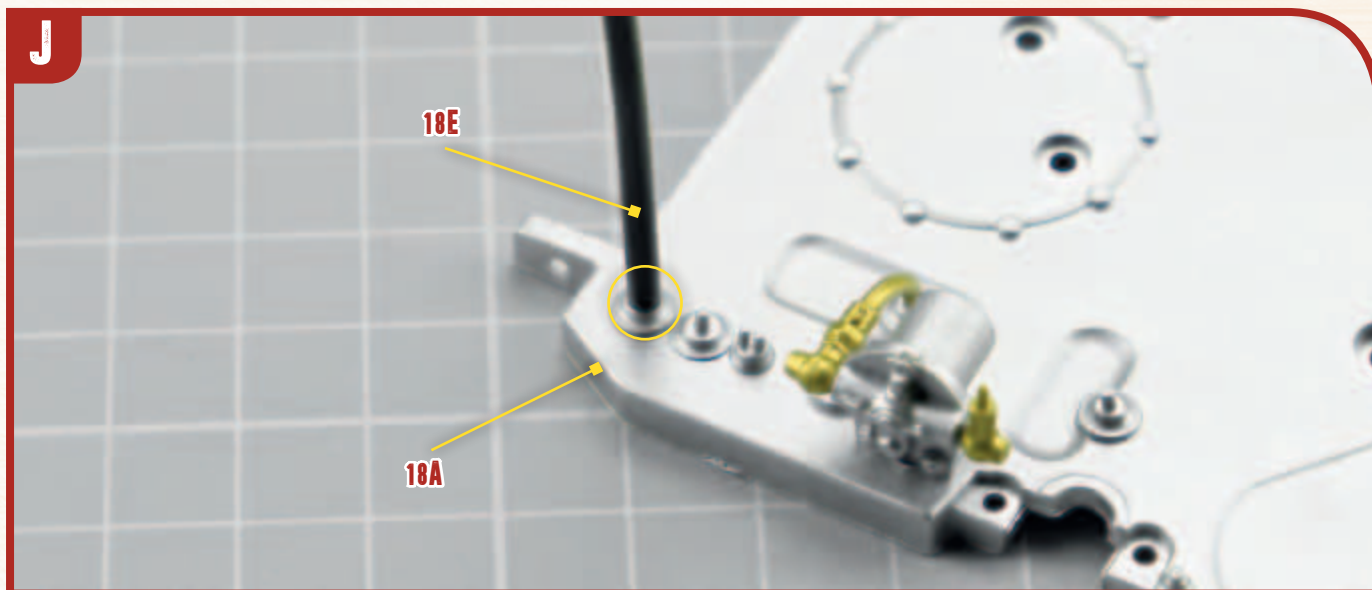
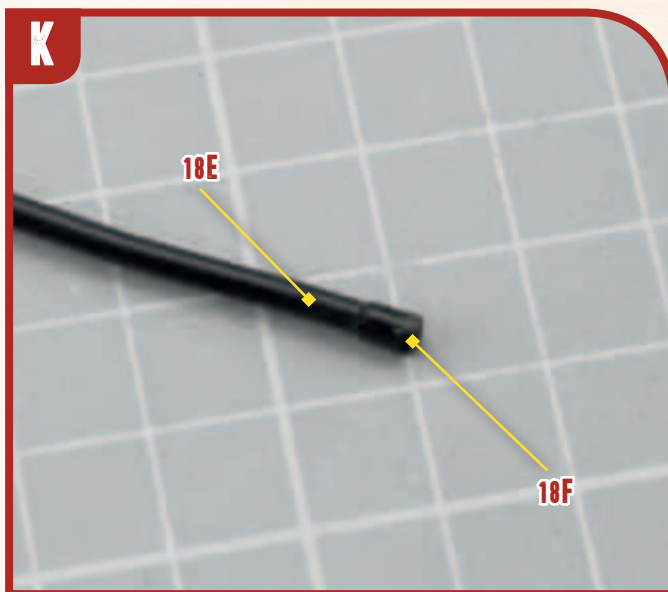
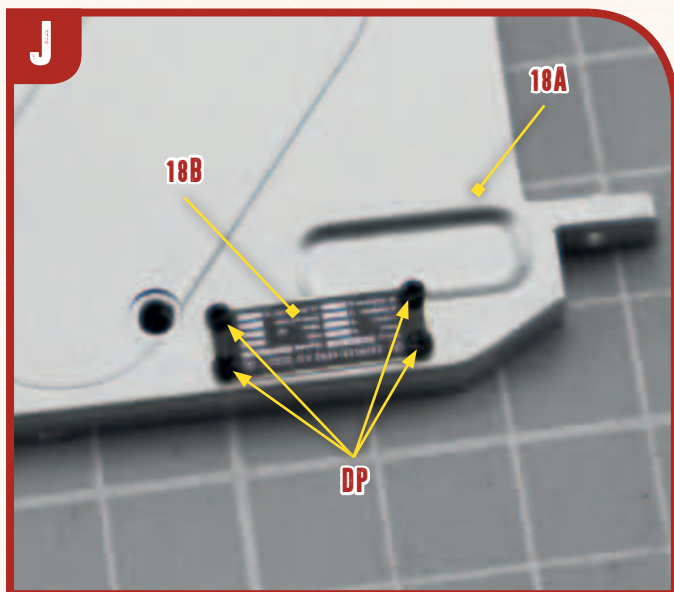
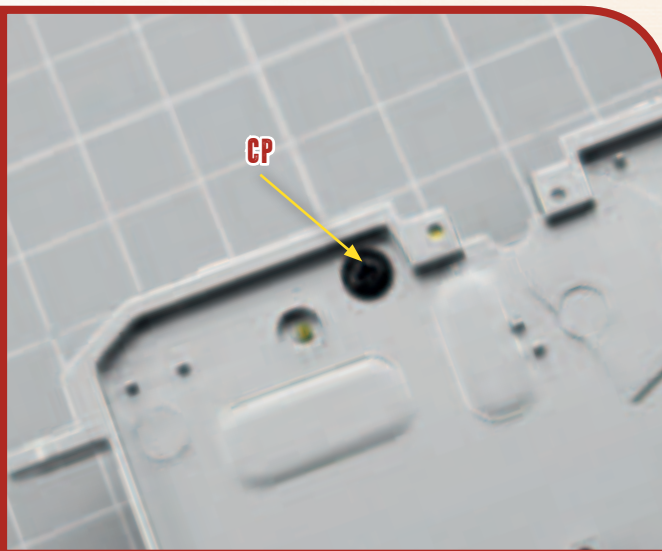
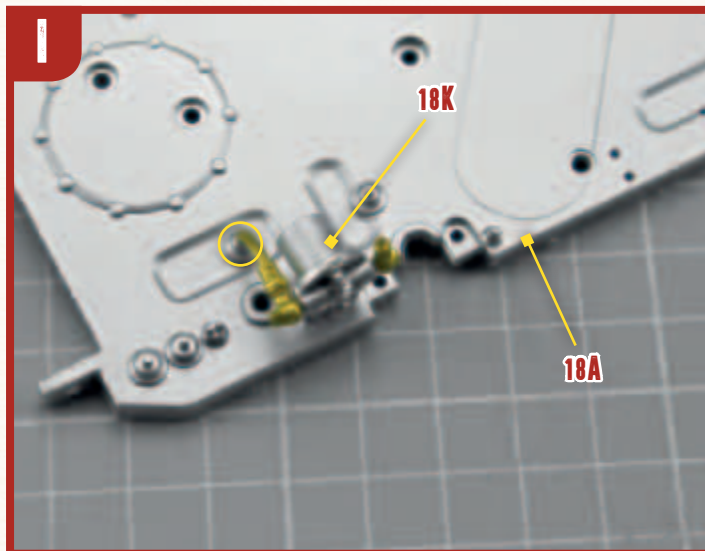


- | | | |
|-----------------------------------|----------------------------------|-----------------------------------|
| 18A Firewall | 18G Oil hose 8 | 18M Fuel lines connector 1 |
| 18B Plate | 18H Oil hoses connector 5 | 18N Fuel line 4 |
| 18C Oil hose 7 | 18I Oil hoses connector 6 | 18O Oil hoses connector 7 |
| 18D Starter wire | 18J Oil hose 9 | |
| 18E Oil radiator hose | 18K Fuel filter | CP 2 screws (1.7x3x5mm) |
| 18F Oil radiator connector | 18L Fuel line 3 | DP 5 screws (1.2x3mm) |



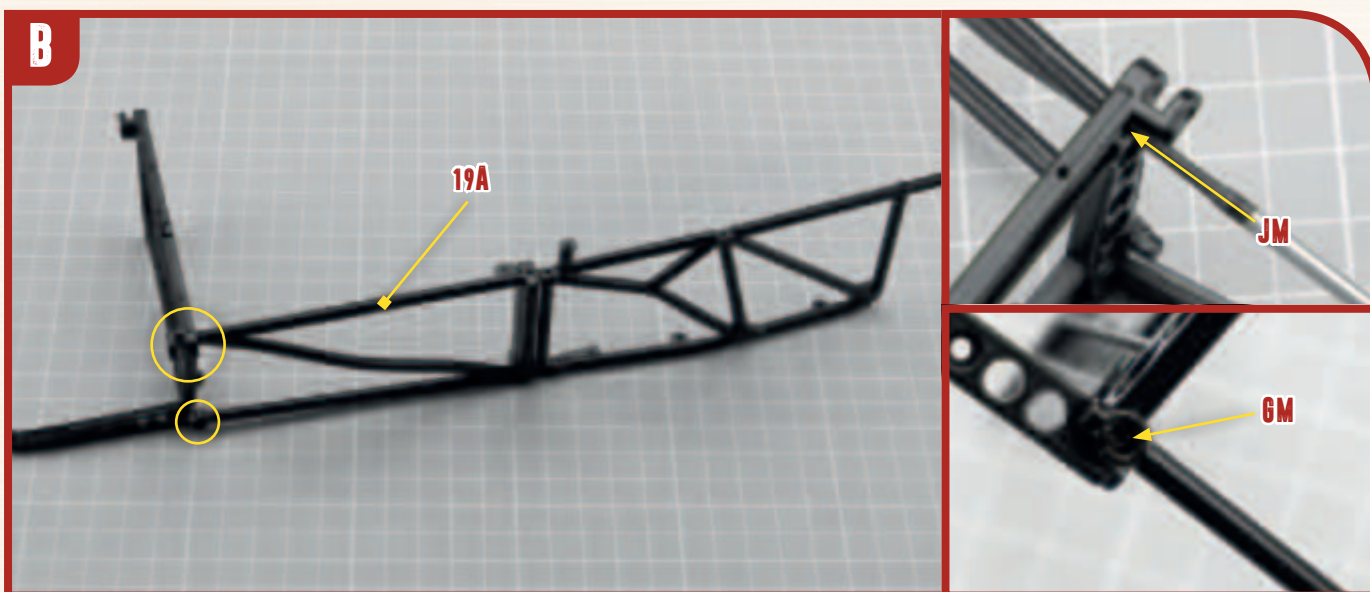
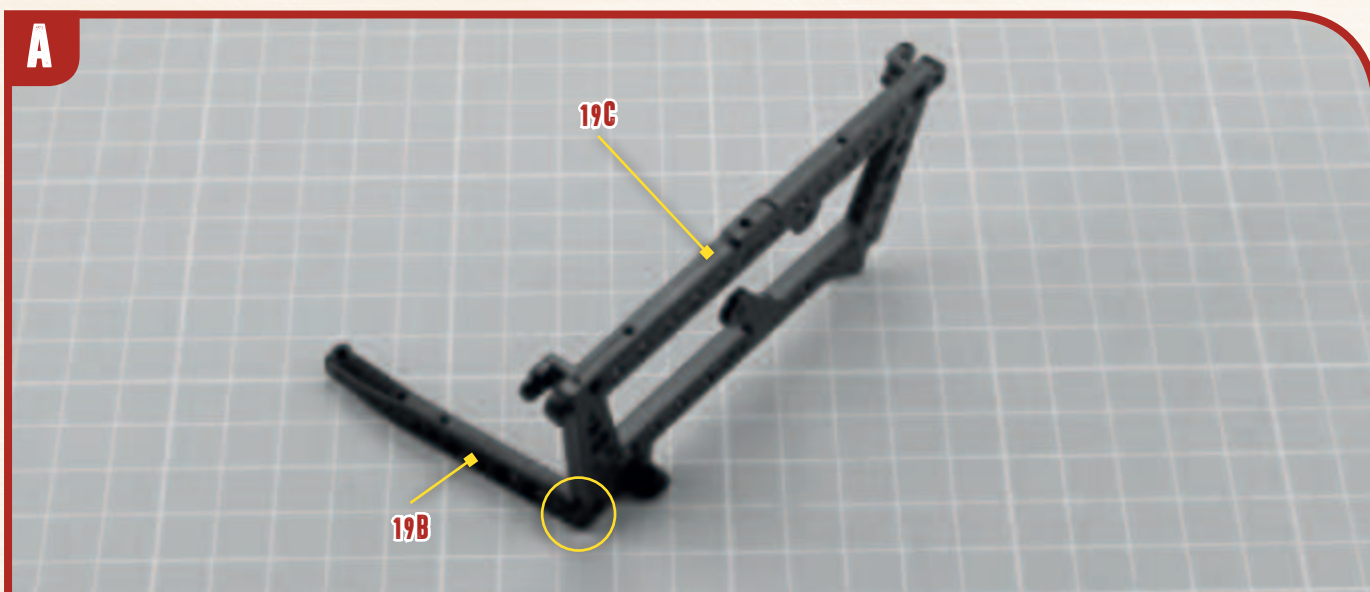
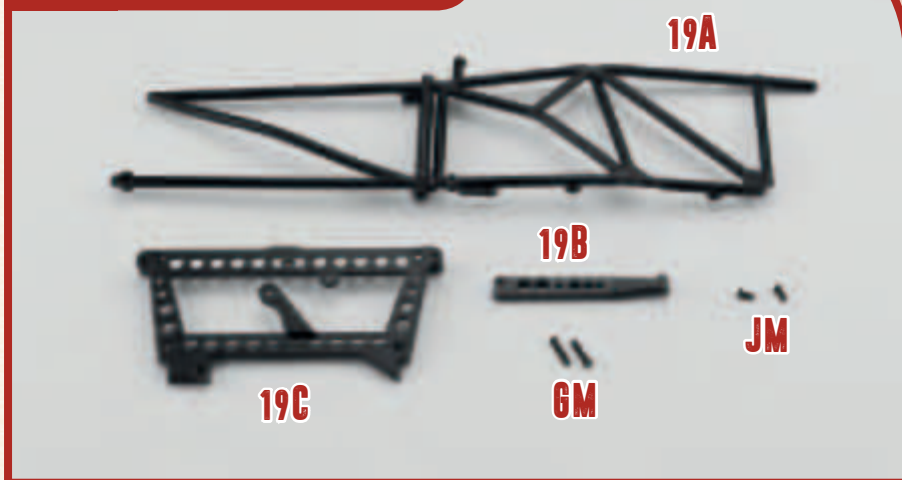


stepbystep #18



19 PARTS LIST

- 19A** Chassis – left section
- 19B** Radiator support (L)
- 19C** Front suspension support 1
- 6M** 2 screws (2x10mm)
- JM** 2 screws (2x5mm)



20 PARTS LIST

20A Rear axle support

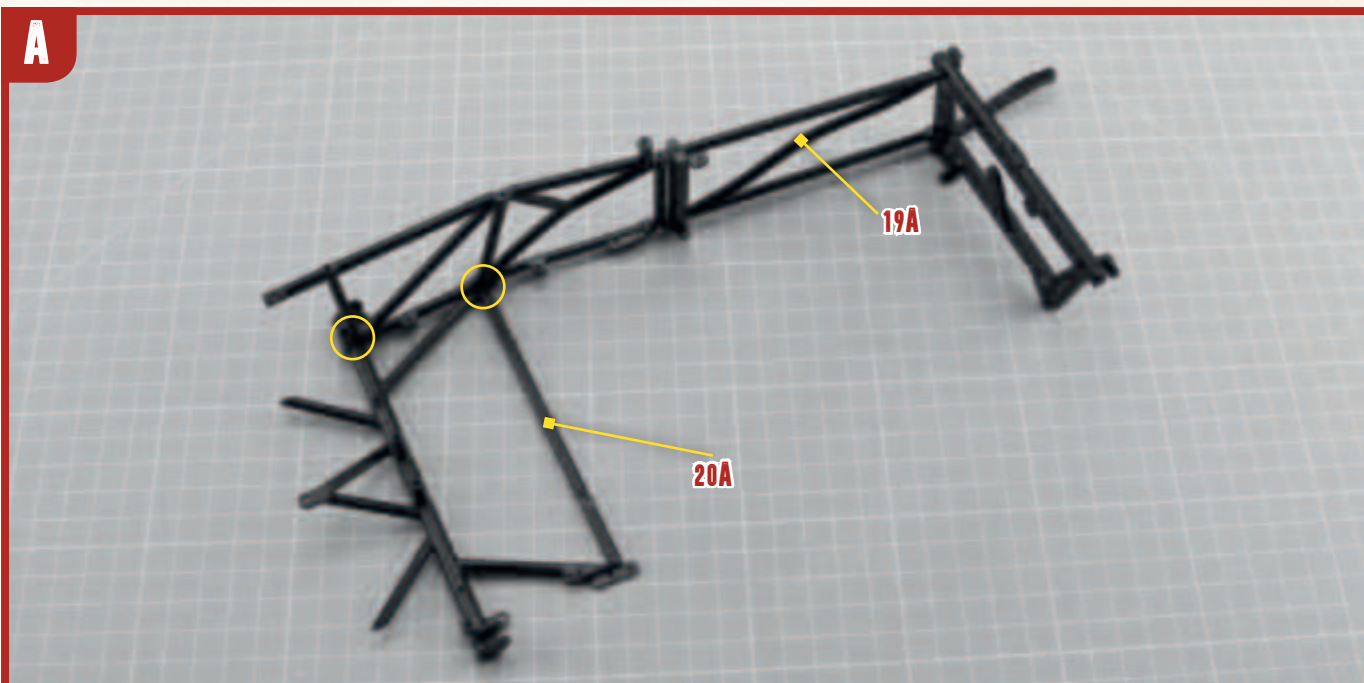
DM 2 screws (2x4mm)
JM 3 screws (2x5mm)



DM

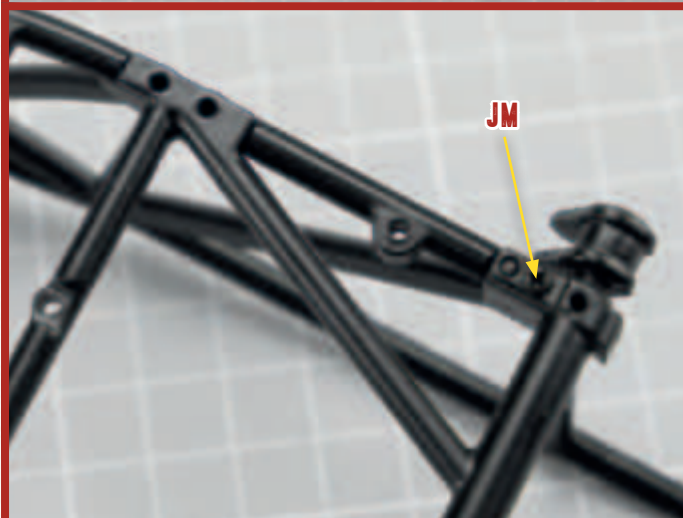
JM

A

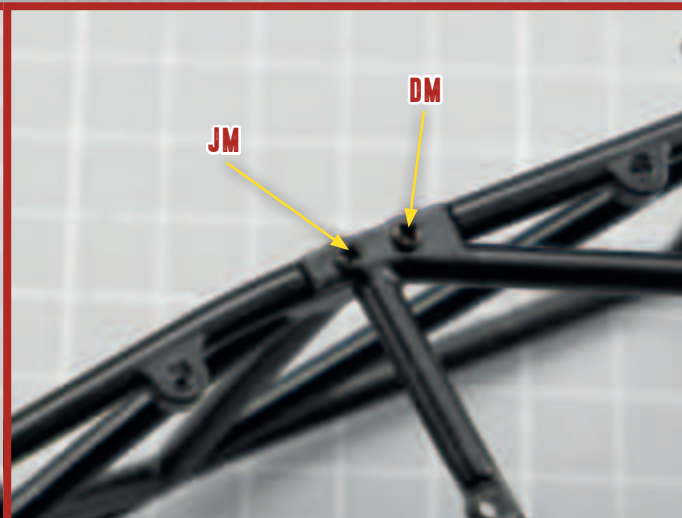


19A

20A



JM



DM

JM

21 PARTS LIST



21A Chassis – rear left section

21B Torsion bar support bushing 1

21C Suspension lock 1

21D Compensating reservoir

21E Reservoir cover

21F Fuel lines connector 2

21G Fuel lines connector 3

21H Reservoir support

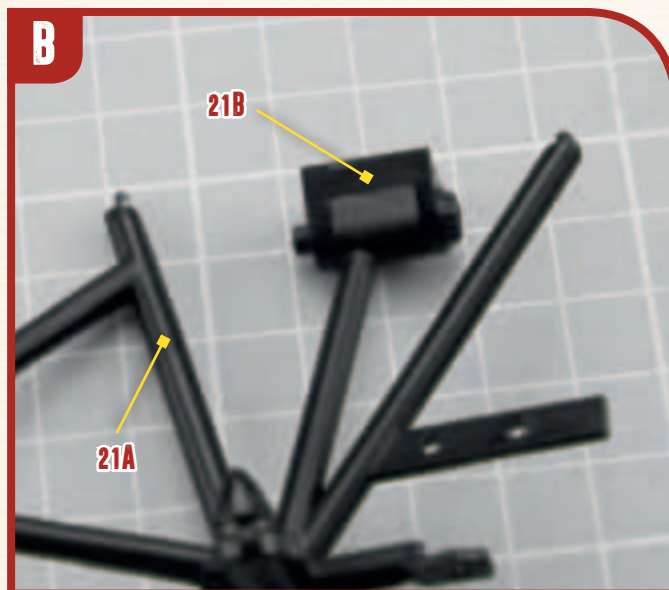
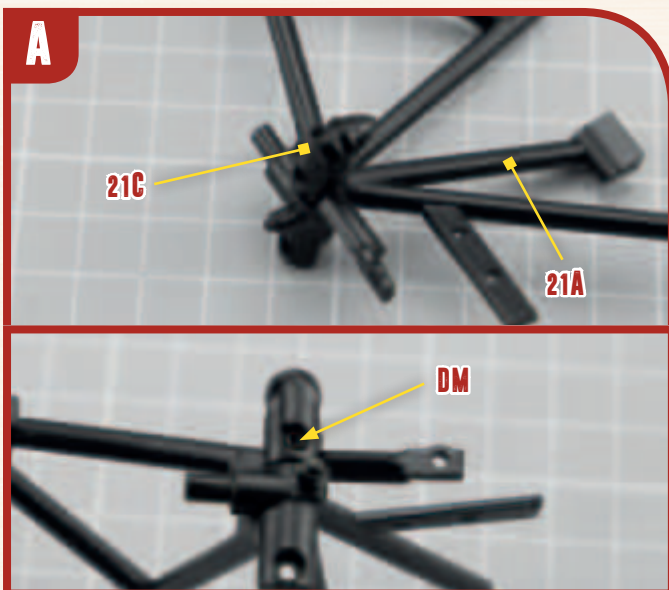
AP 3 screws (1.7x4mm)

EP 2 screws (2x4mm)

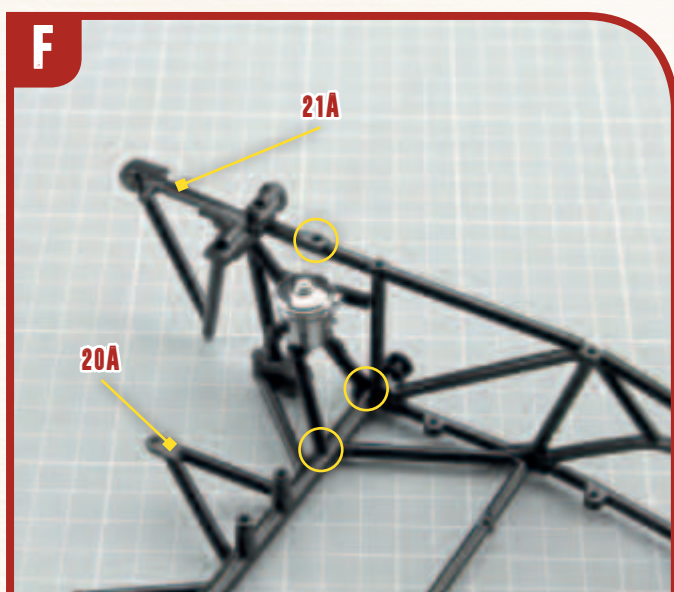
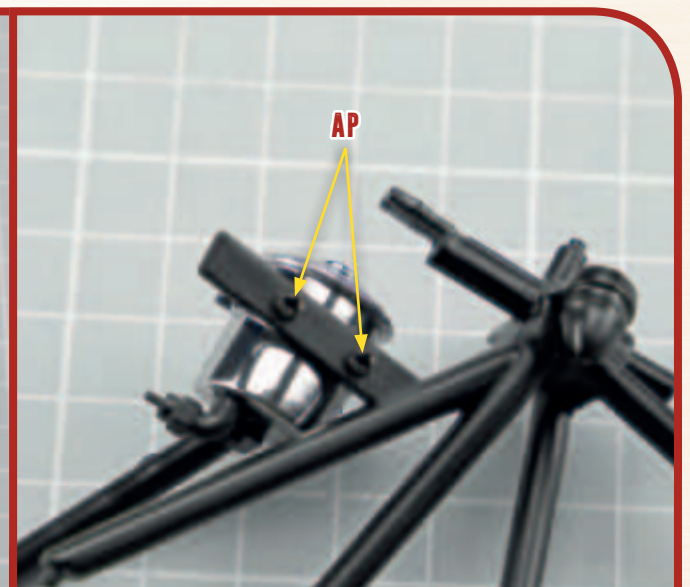
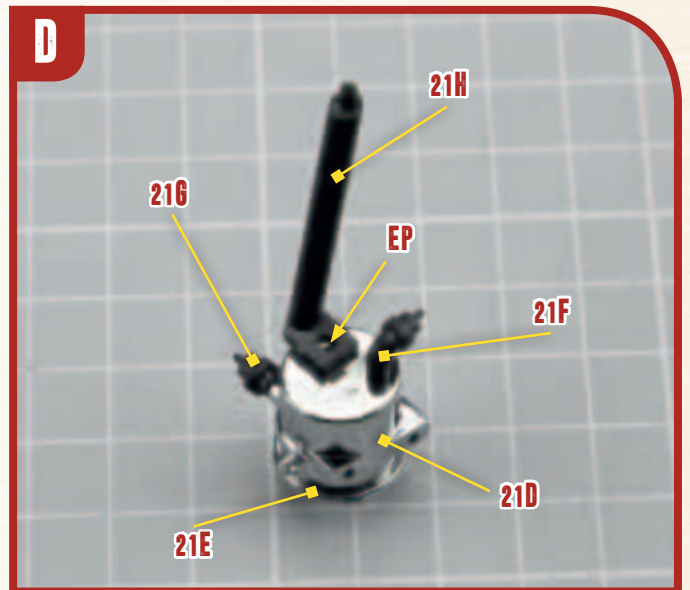
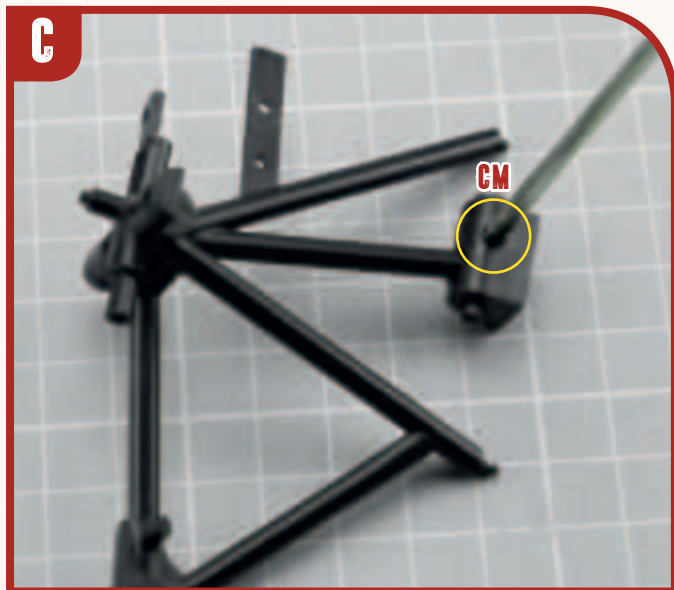
CM 2 screws (1.7x4mm)

DM 2 screws (2x4mm)

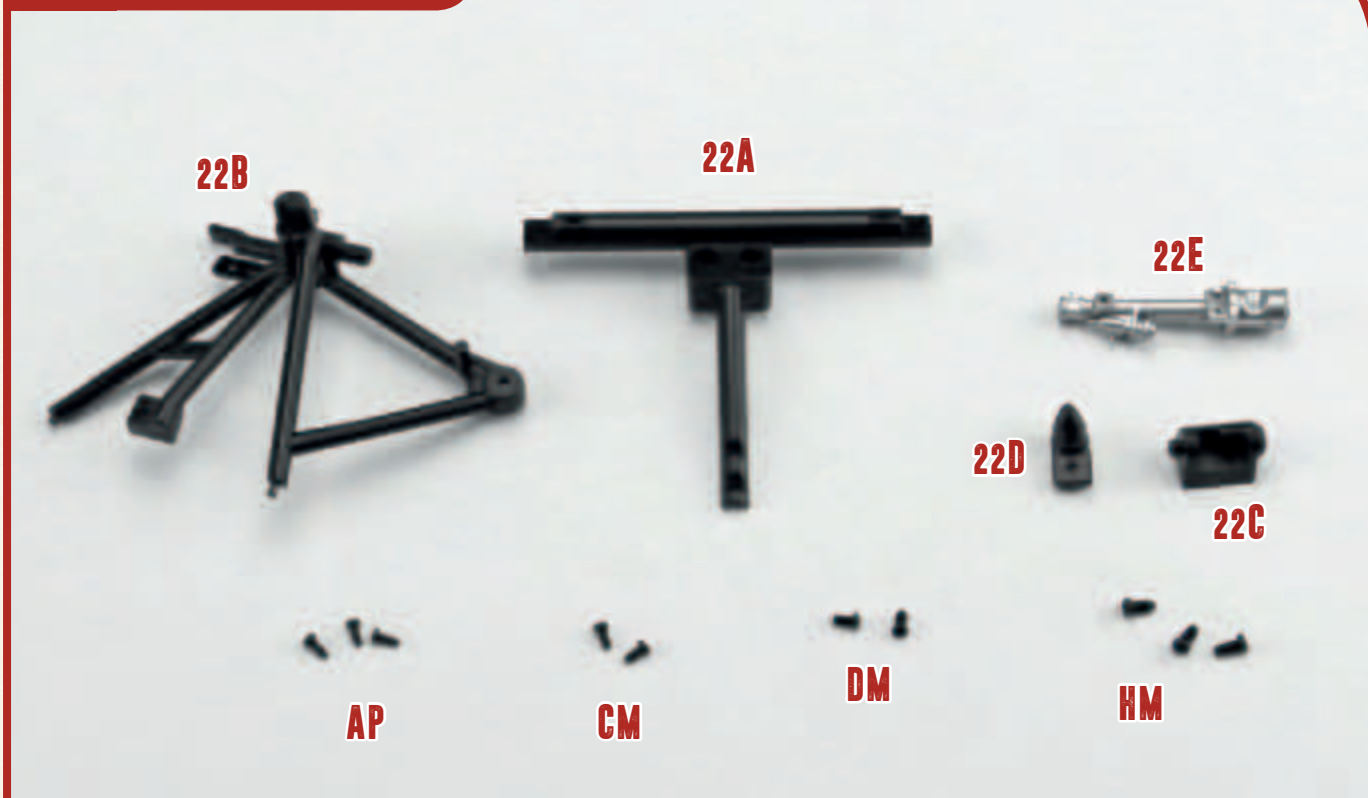
JM 2 screws (2x5mm)



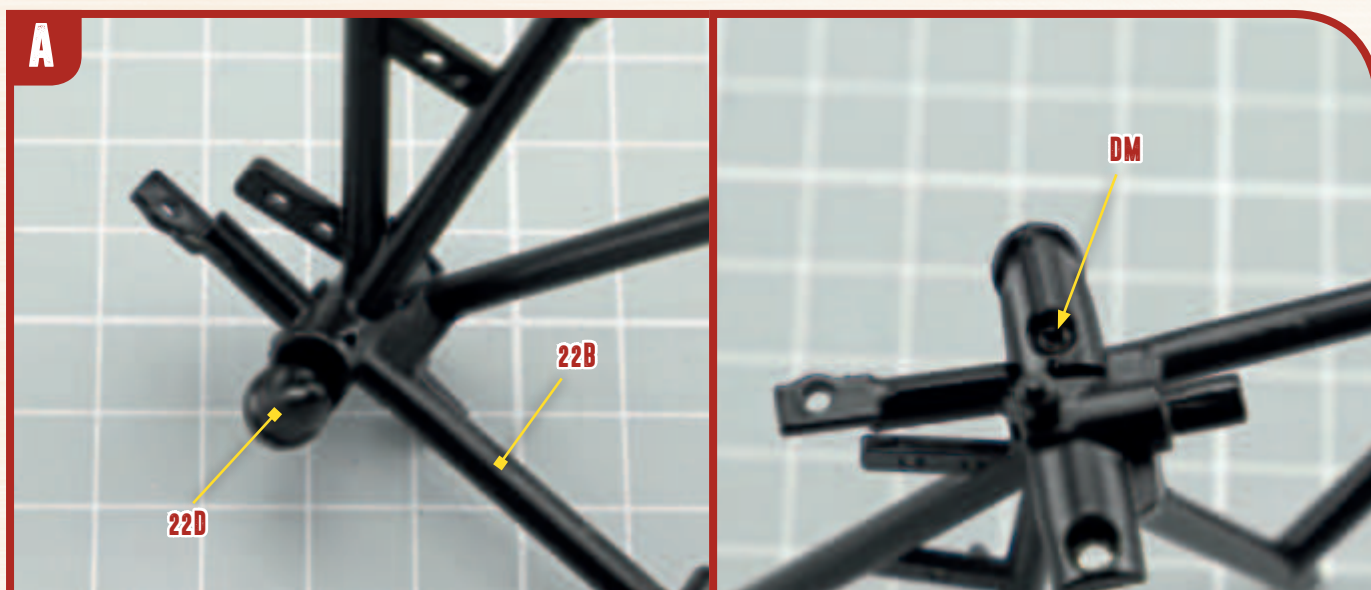
stepbystep #21



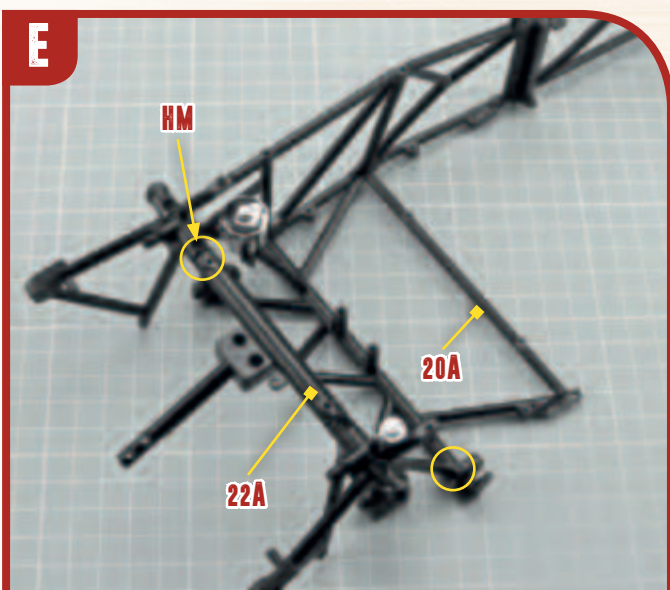
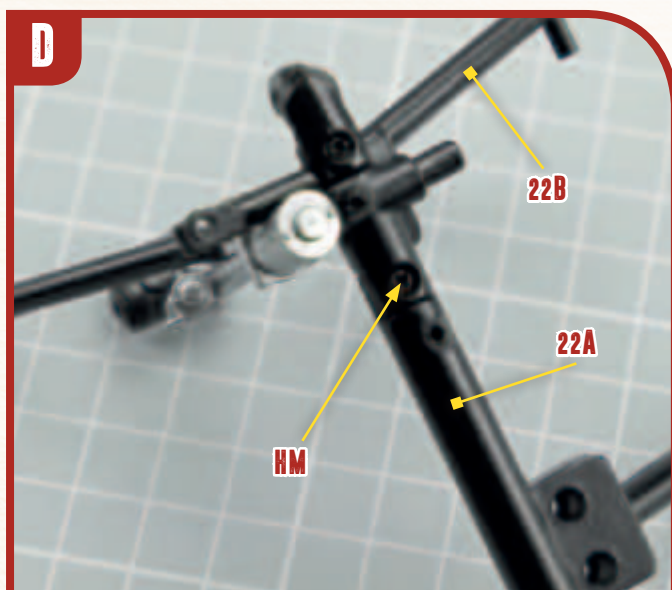
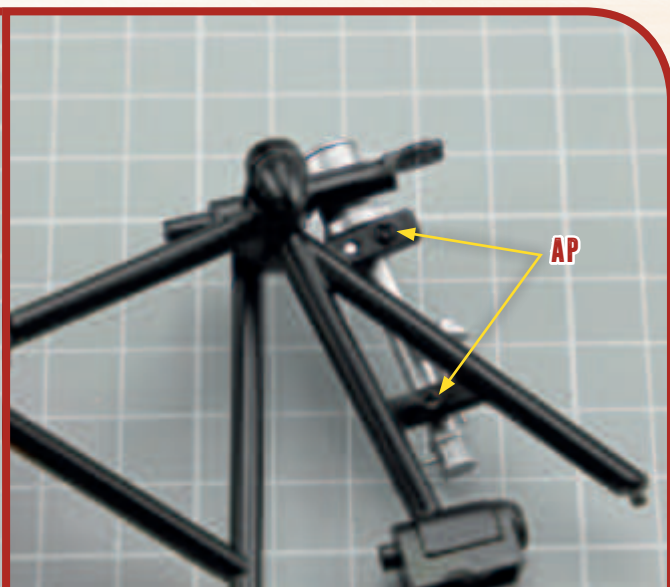
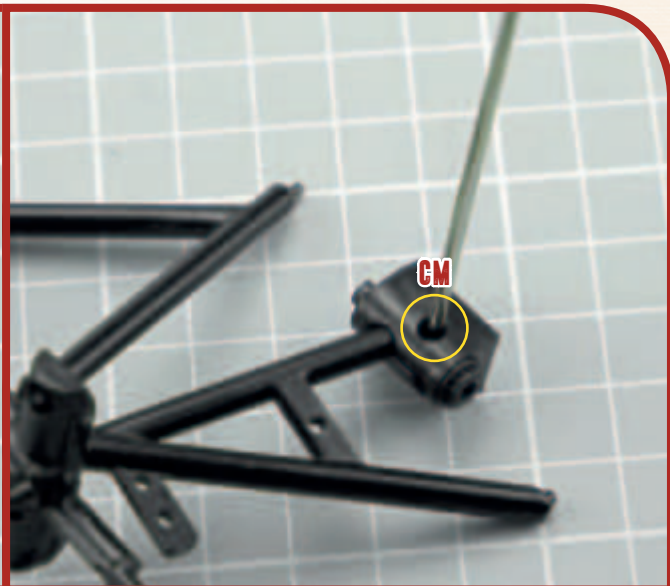
22 PARTS LIST



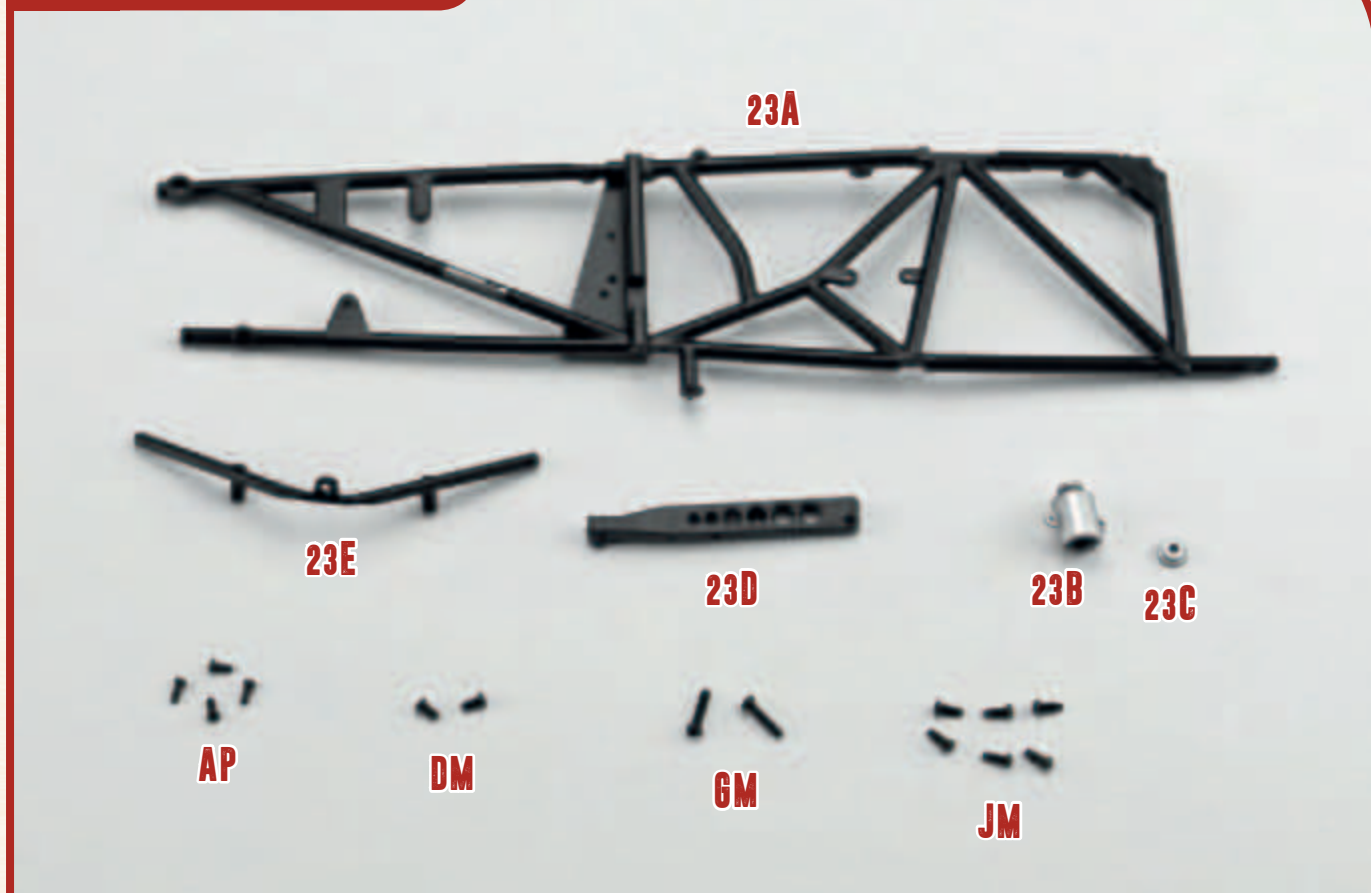
- | | | | |
|------------|-------------------------------|-----------|--------------------|
| 22A | Rear crossbeam | AP | 3 screws (1.7x4mm) |
| 22B | Chassis – rear right section | CM | 2 screws (1.7x4mm) |
| 22C | Torsion bar support bushing 2 | DM | 2 screws (2x4mm) |
| 22D | Suspension lock 2 | HM | 3 screws (2.3x5mm) |
| 22E | Fuel pump | | |



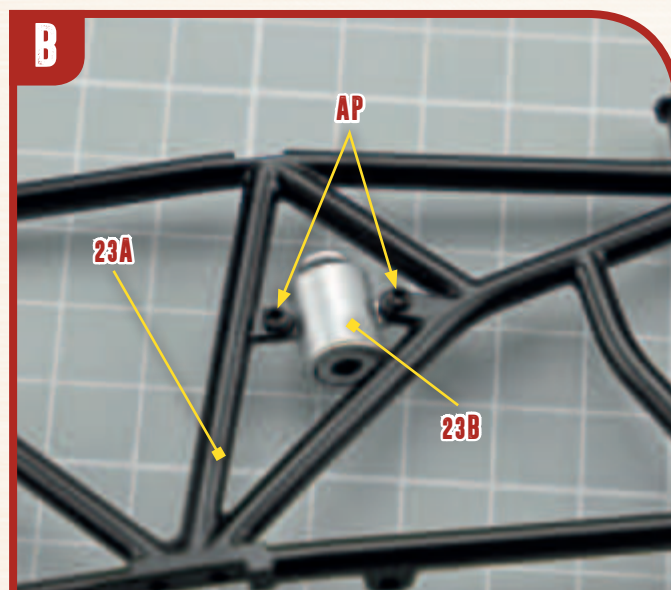
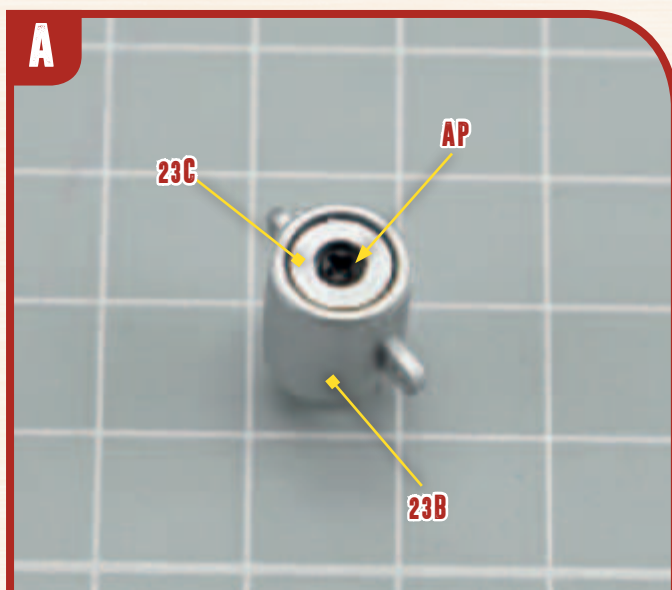
stepbystep #22

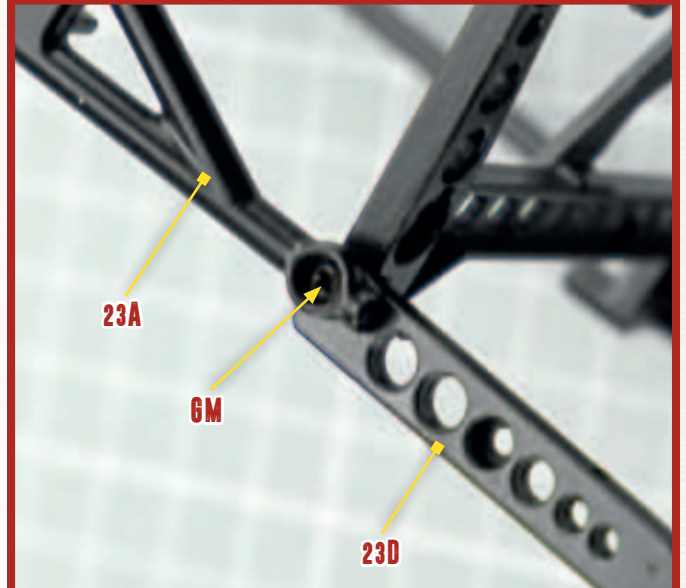
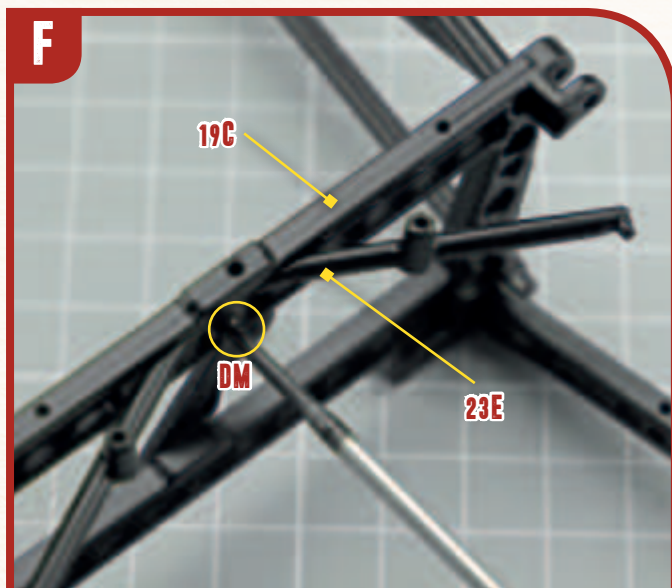
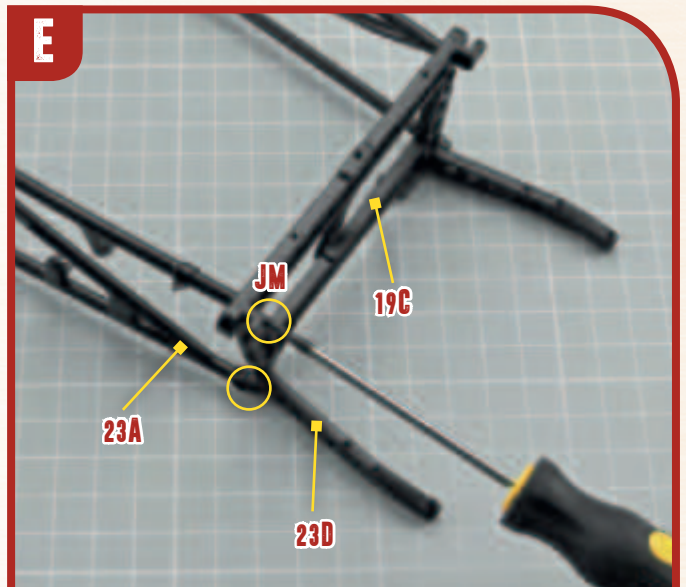
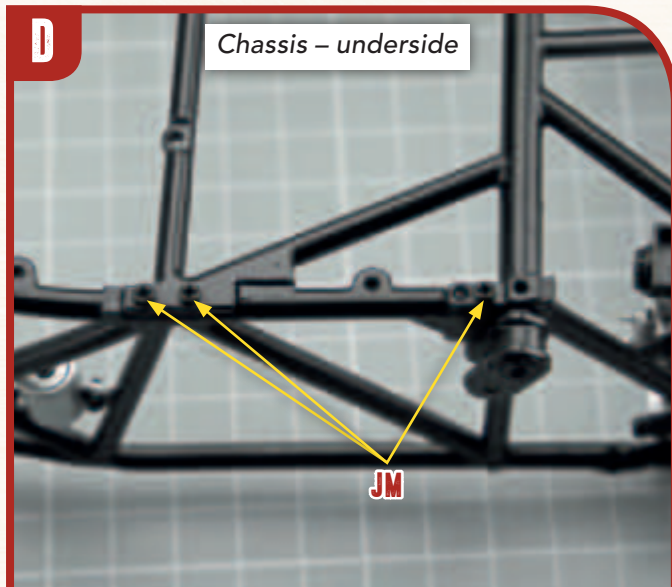
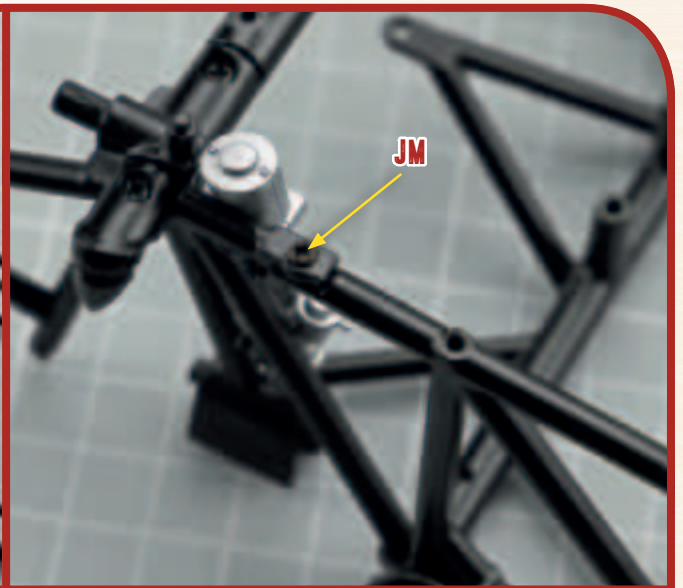
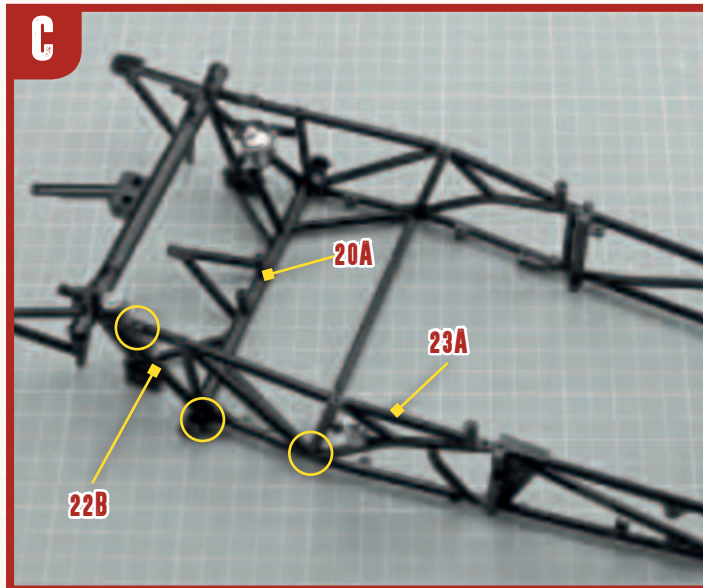


23 PARTS LIST

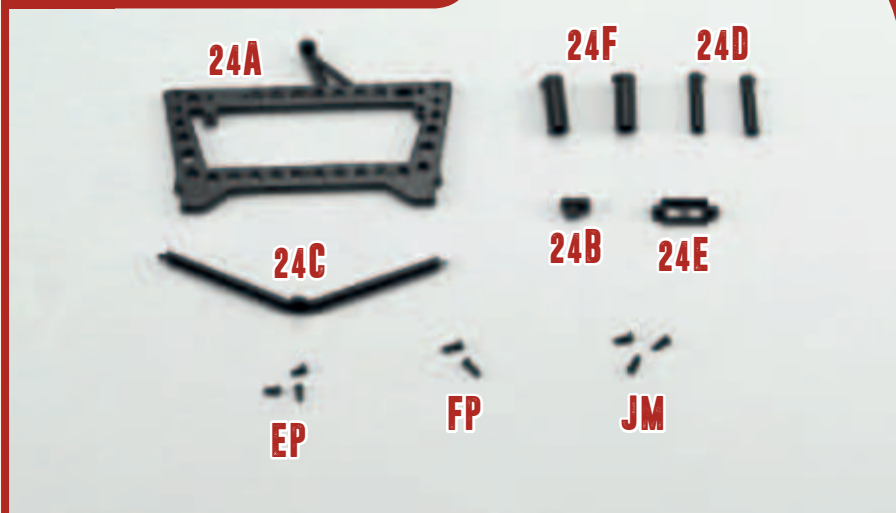


- | | |
|------------------------------------|------------------------------|
| 23A Chassis – right section | AP 4 screws (1.7x4mm) |
| 23B Brake fluid reservoir | DM 2 screws (2x4mm) |
| 23C Reservoir base | GM 2 screws (2x10mm) |
| 23D Radiator support (R) | JM 6 screws (2x5mm) |
| 23E Front crossbeam | |

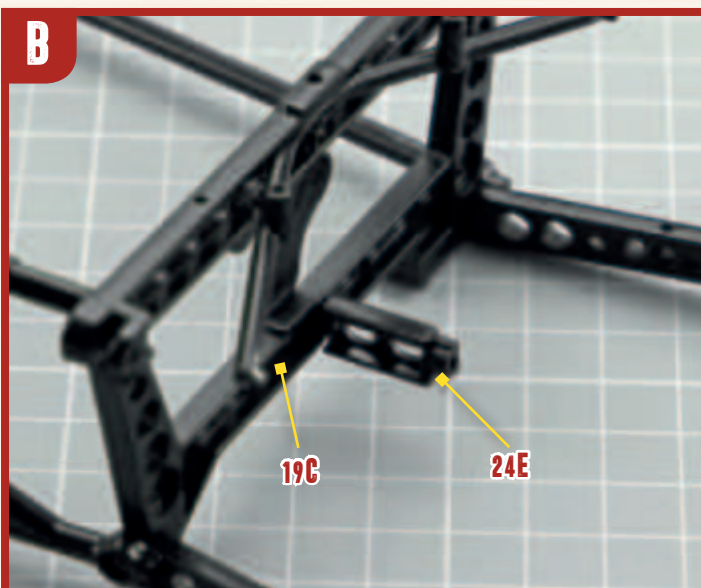
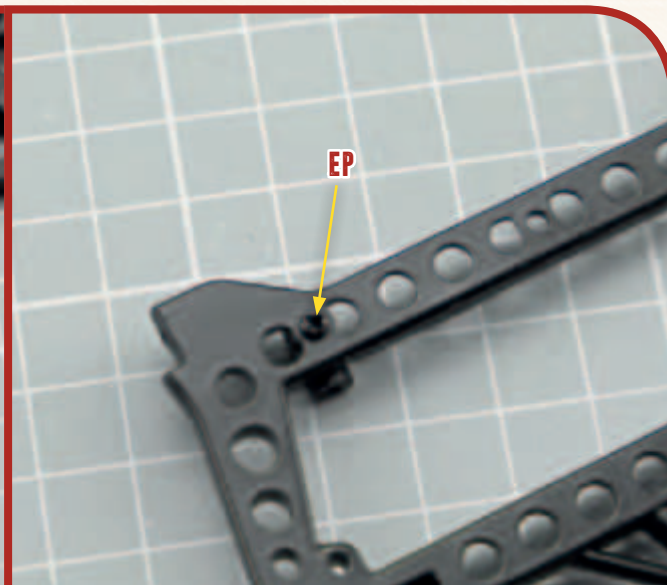
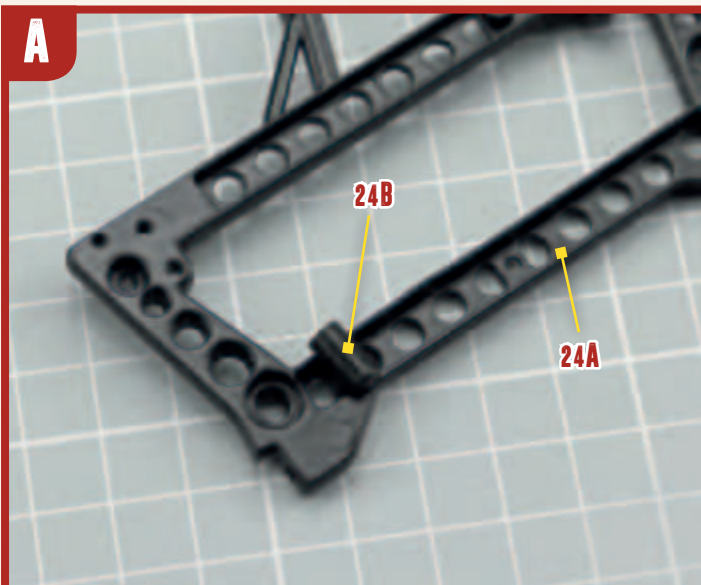


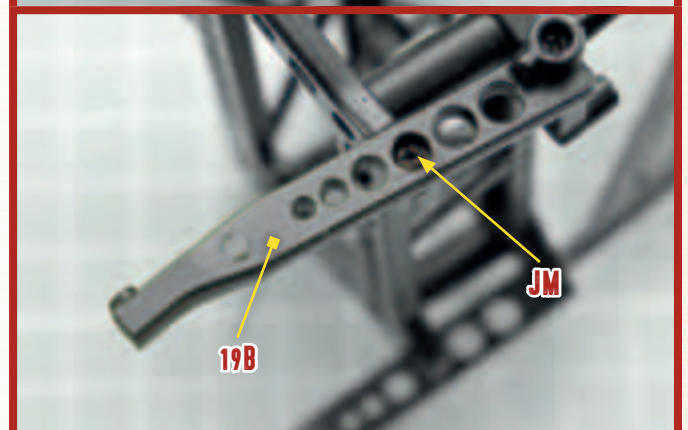
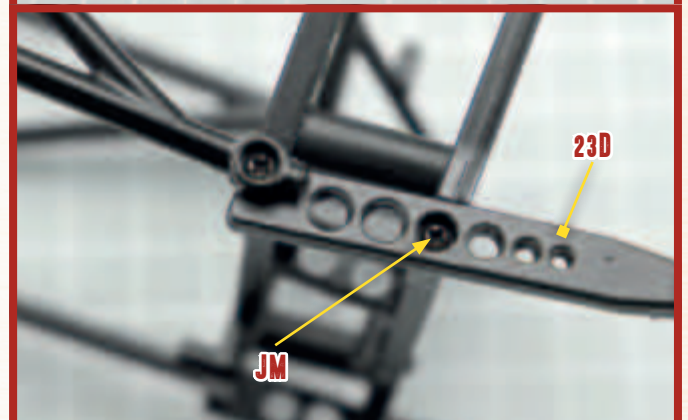
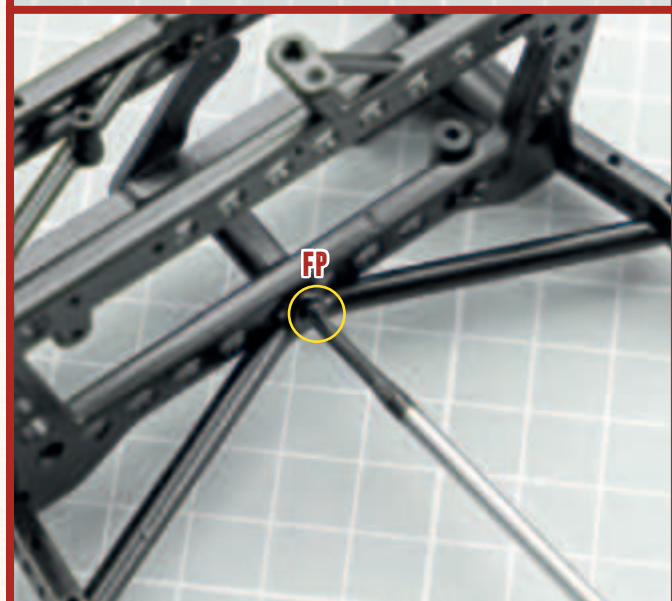
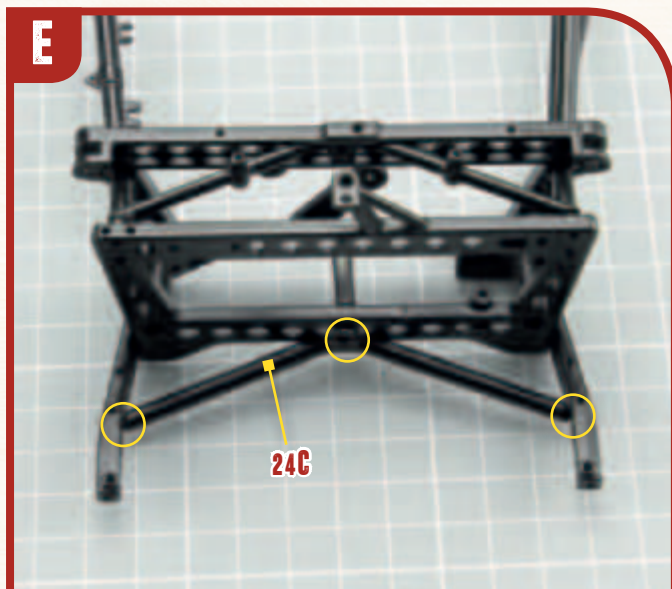
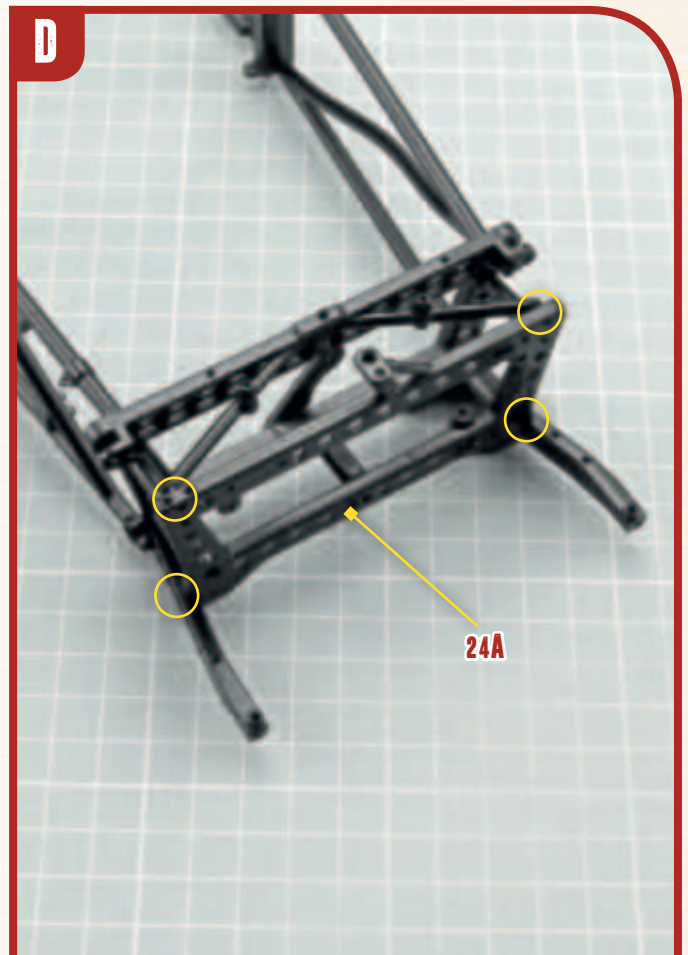
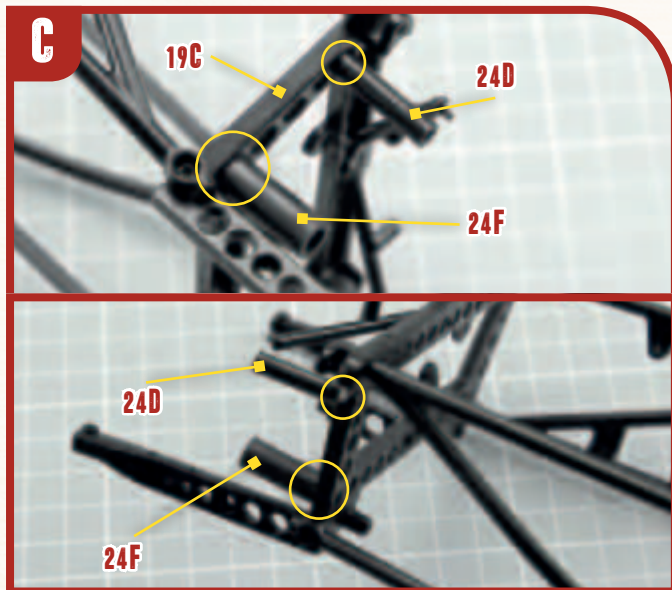


24 PARTS LIST

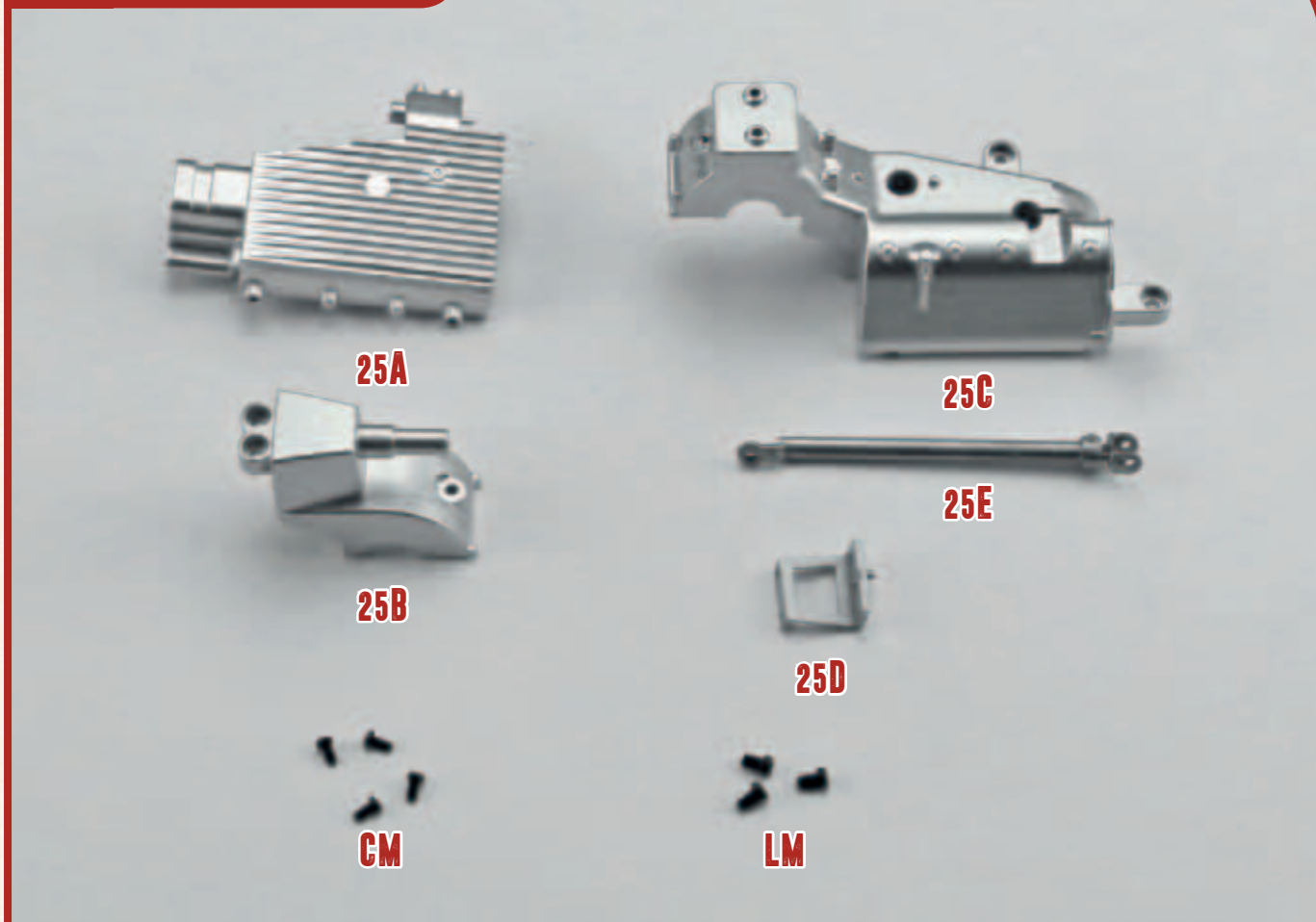


- 24A** Front suspension support 2
- 24B** Steering support
- 24C** Front lower crossbeam
- 24D** Front suspension upper arm axles (x2)
- 24E** Reinforcement panel
- 24F** Front torsion bar support bushings (x2)
- EP** 3 screws (2x4mm)
- FP** 2 screws (2x6mm)
- JM** 3 screws (2x5mm)





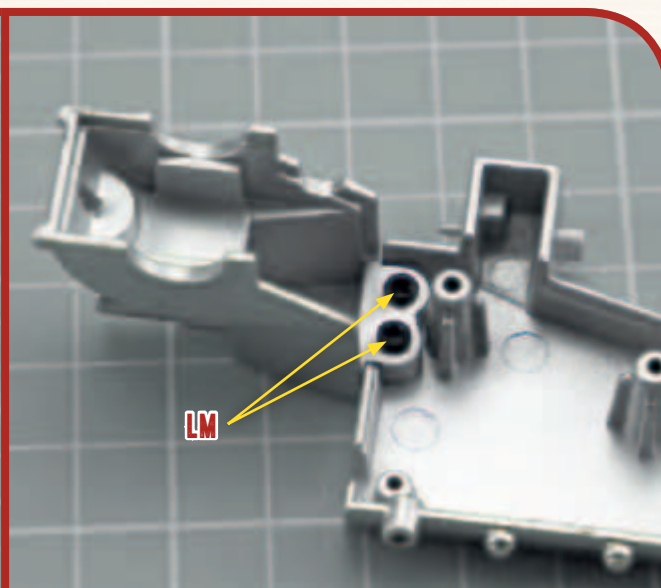
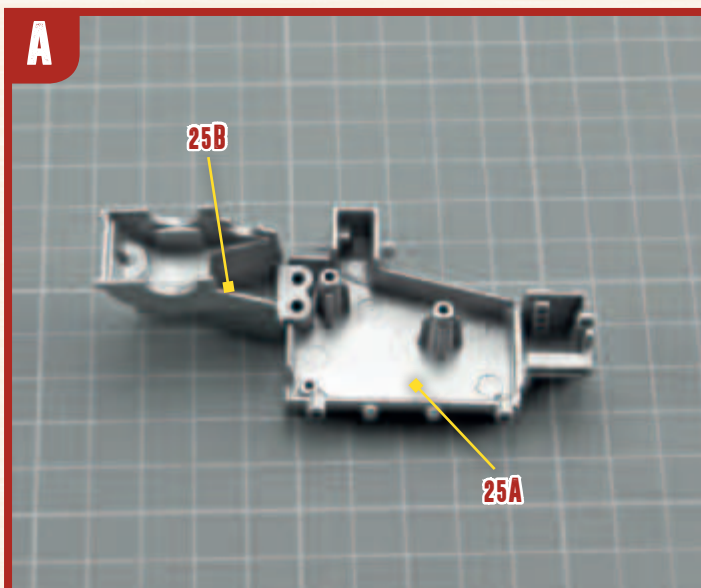
25 PARTS LIST



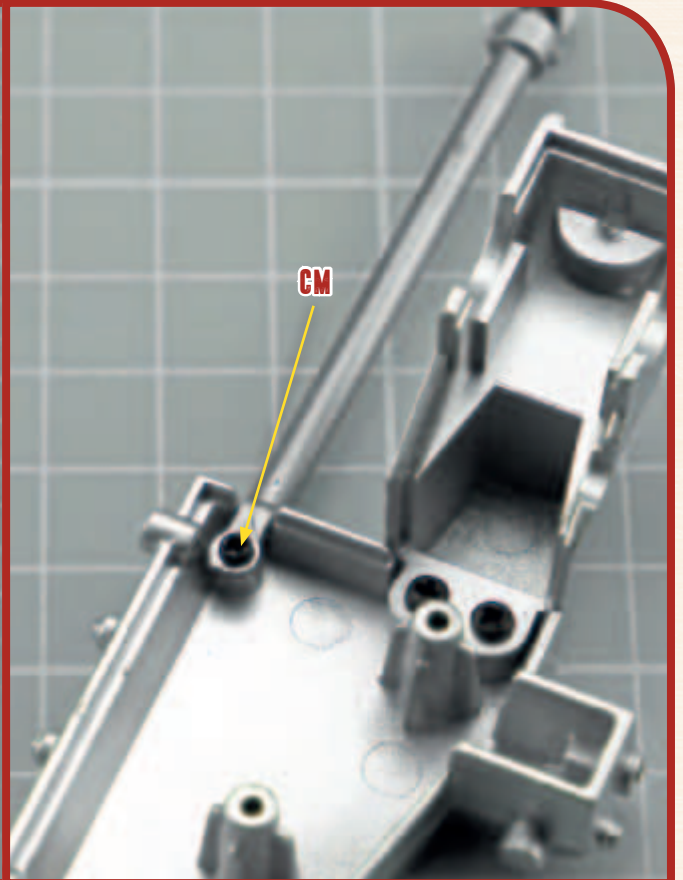
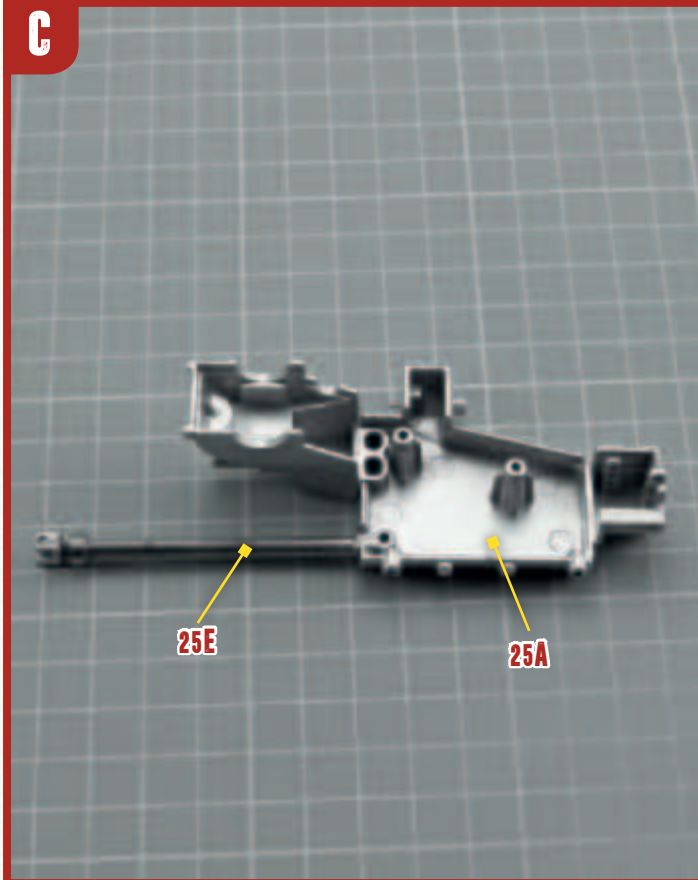
23A Gearbox part A
23B Gearbox part B
23C Gearbox part C

23D Gearbox rear support
23E Rear transmission shaft

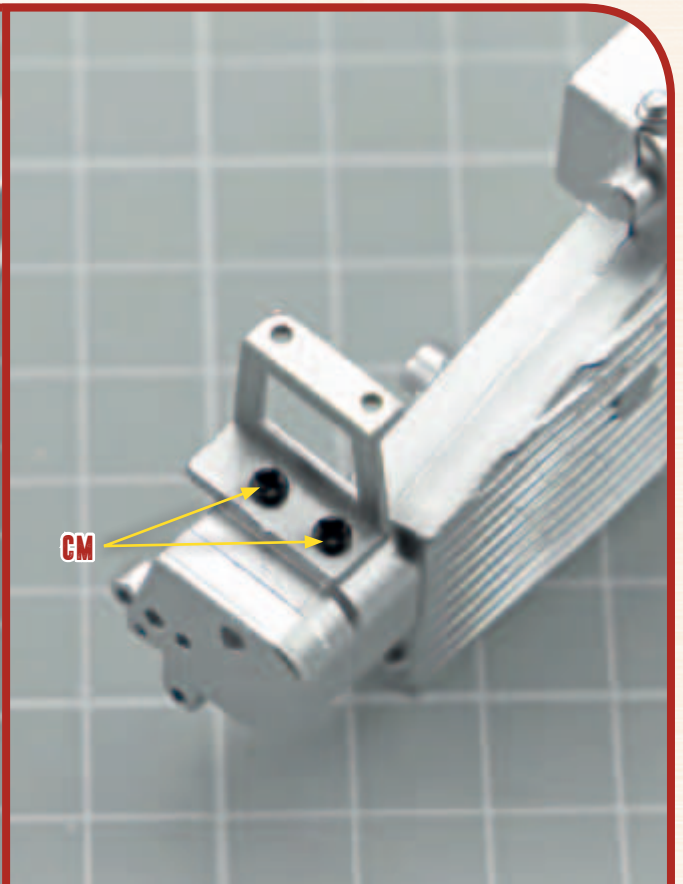
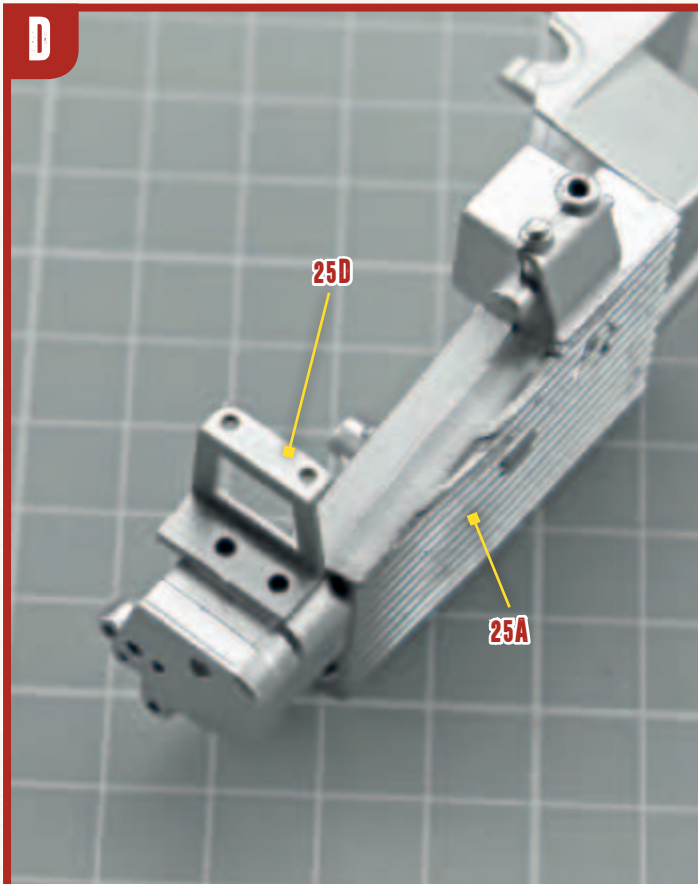
CM 4 screws (1.7x4mm)
LM 3 screws (2.3x4mm)



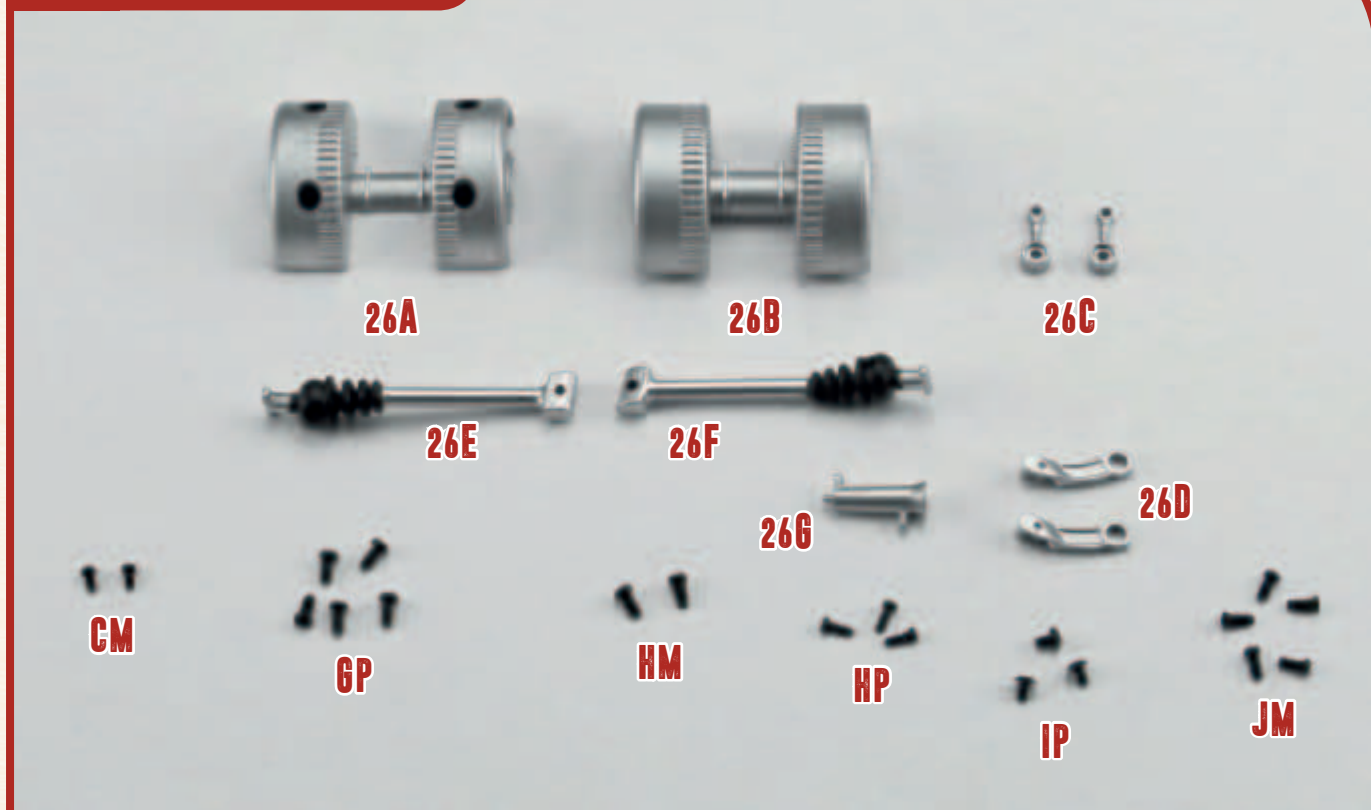
C



D

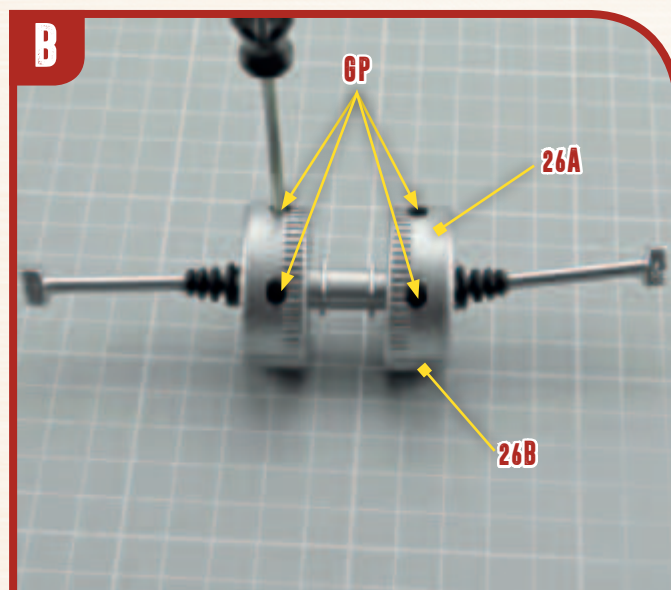
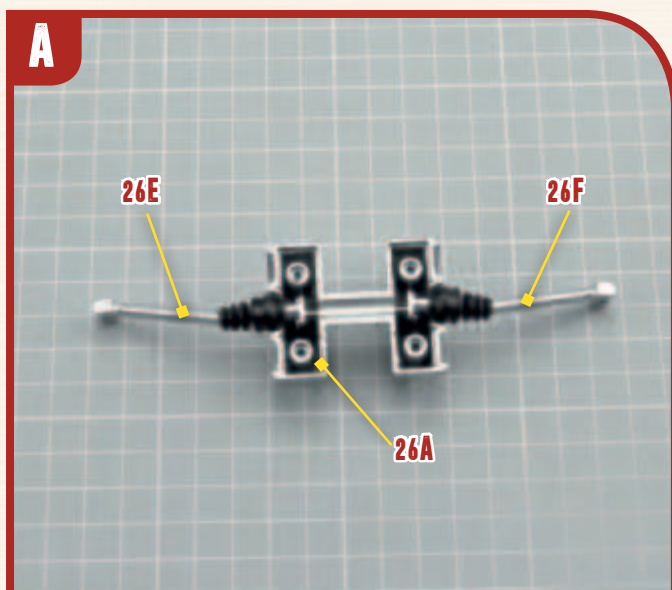


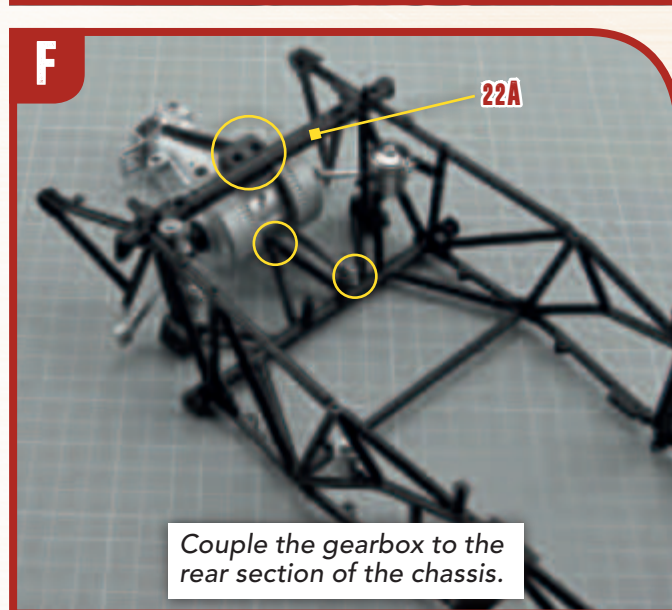
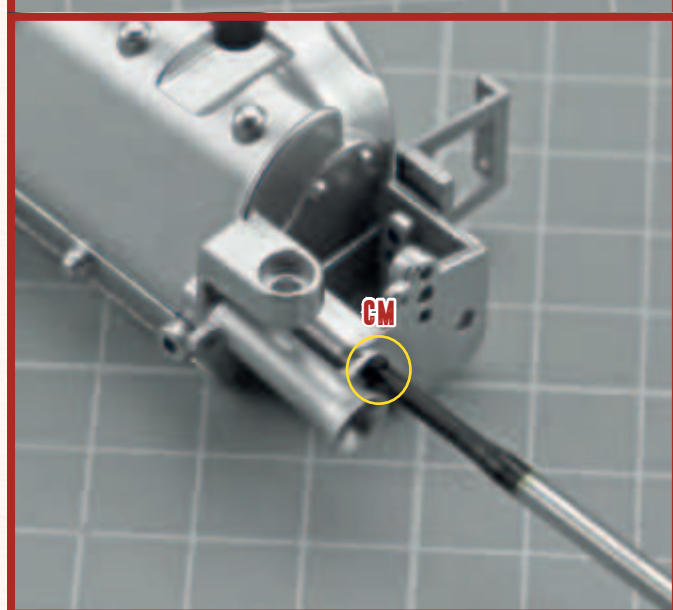
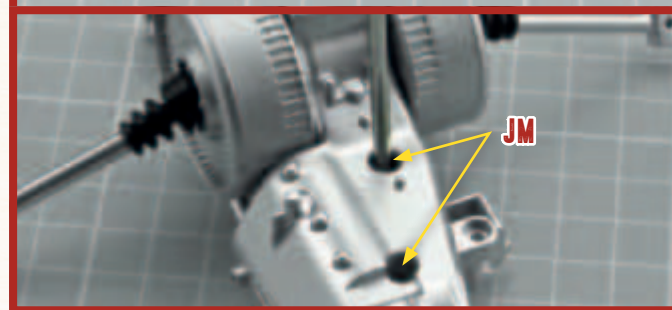
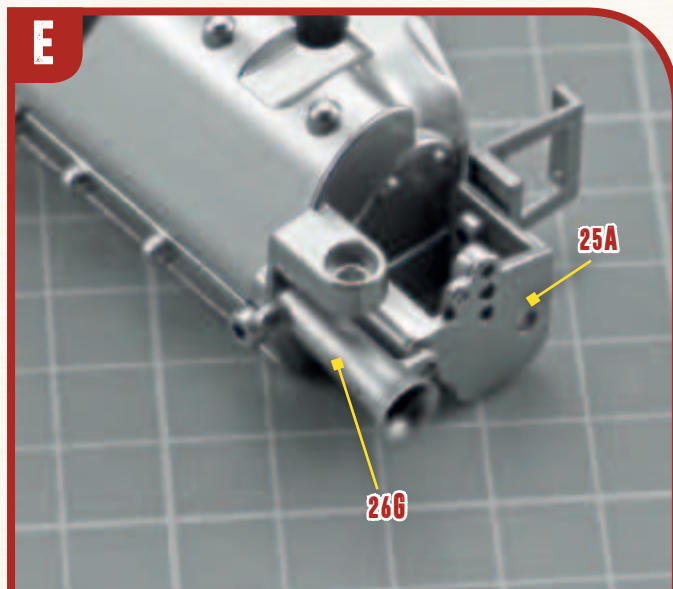
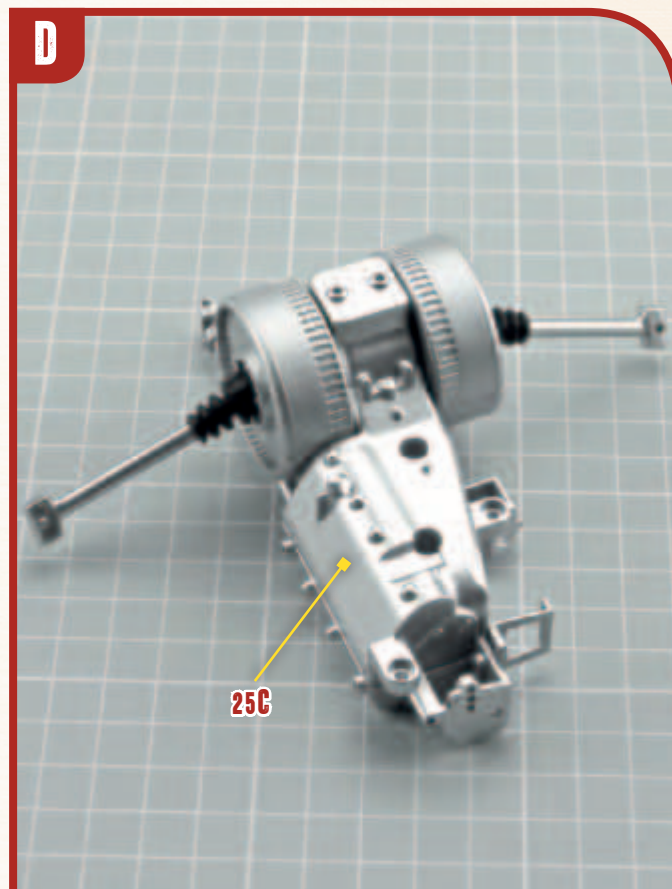
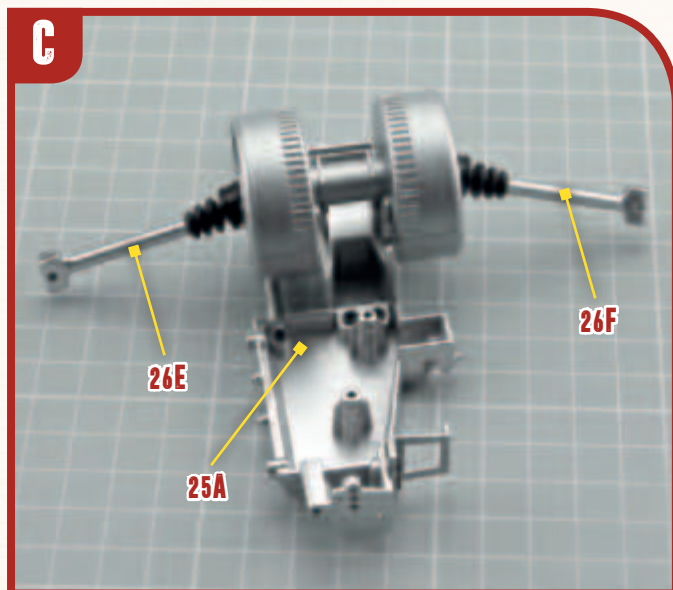
26 PARTS LIST



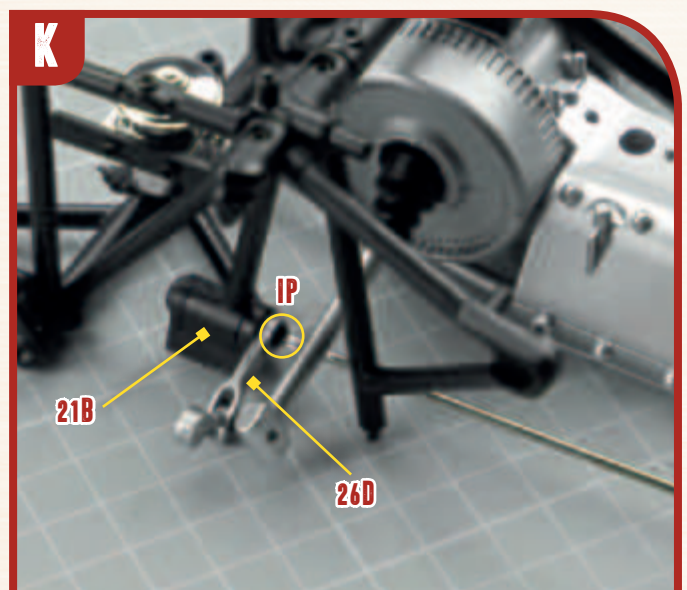
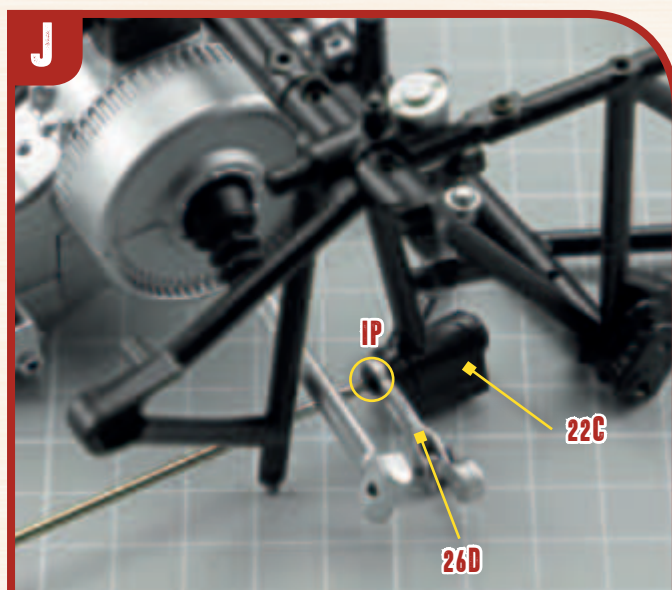
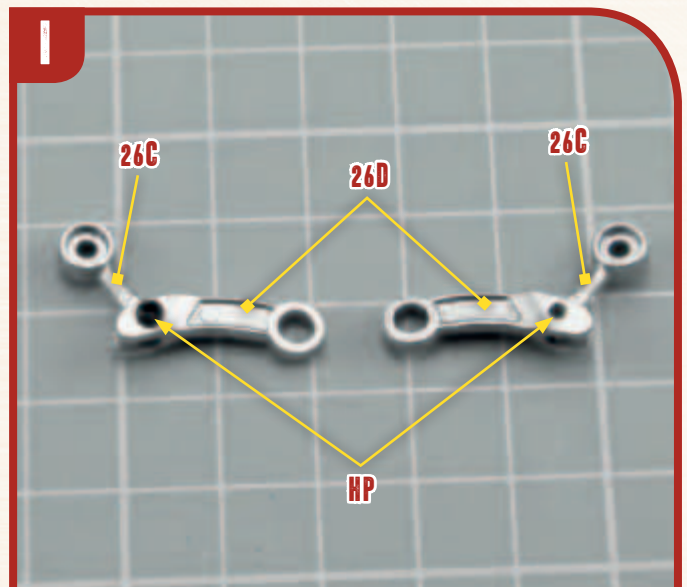
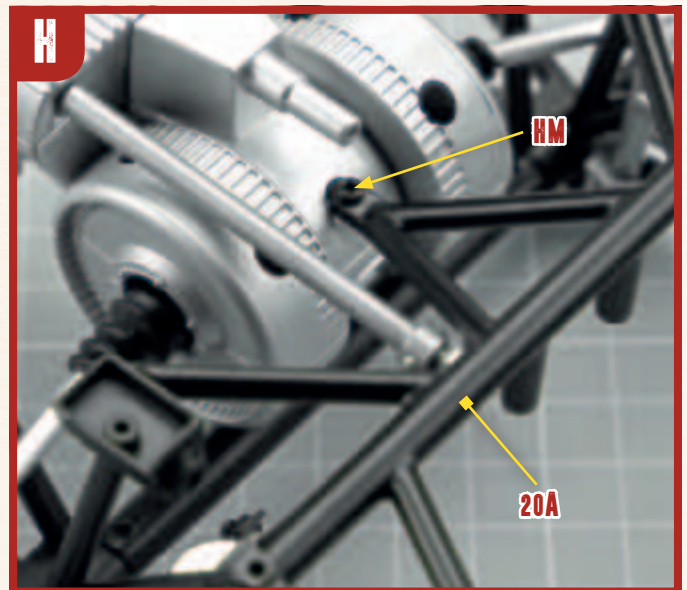
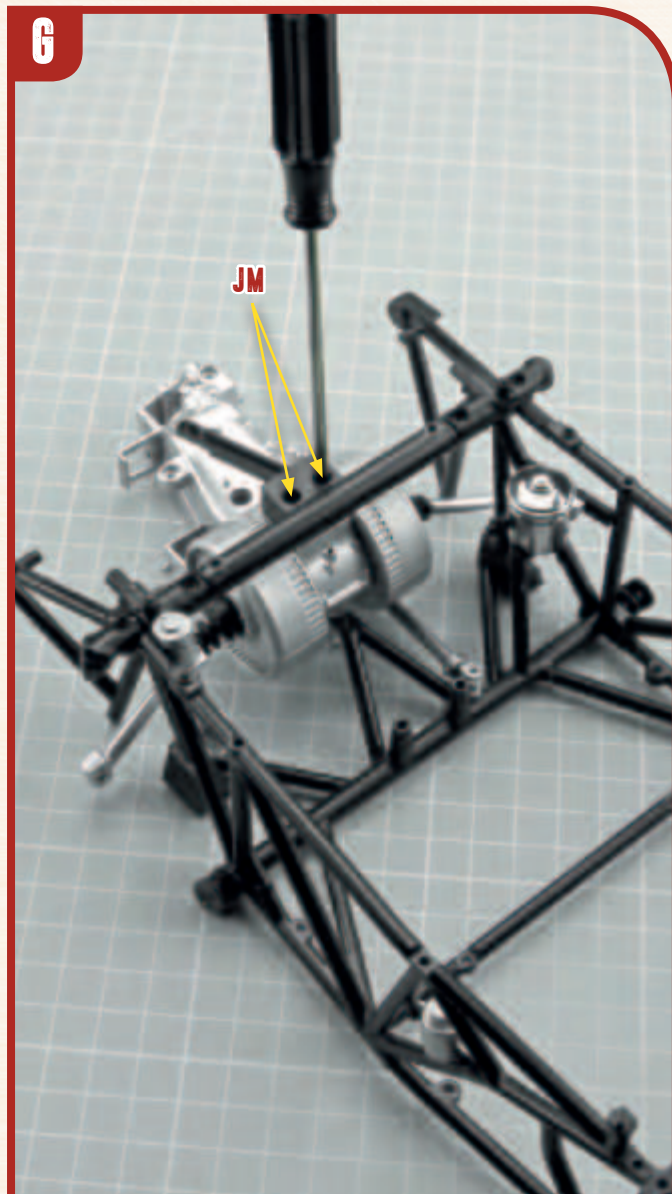
- 26A** Rear brake drums part A
- 26B** Rear brake drums part B
- 26C** Rear suspension levers (x2)
- 26D** Rear suspension arms (x2)
- 26E** Driveshaft (L)
- 26F** Driveshaft (R)
- 26G** External ignition adapter

- GP** 5 screws (2.3x5mm)
- HP** 3 screws (1.7x5mm)
- IP** 3 screws (2x4x6mm)
- CM** 2 screws (1.7x4mm)
- HM** 2 screws (2.3x5mm)
- JM** 5 screws (2x5mm)





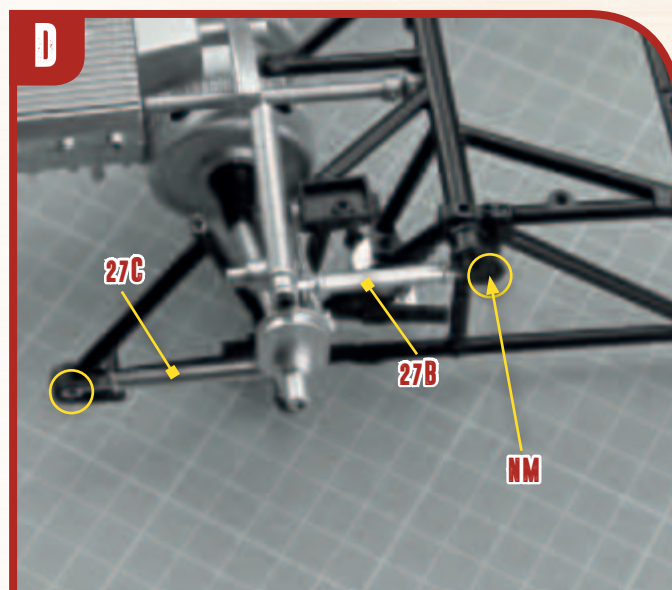
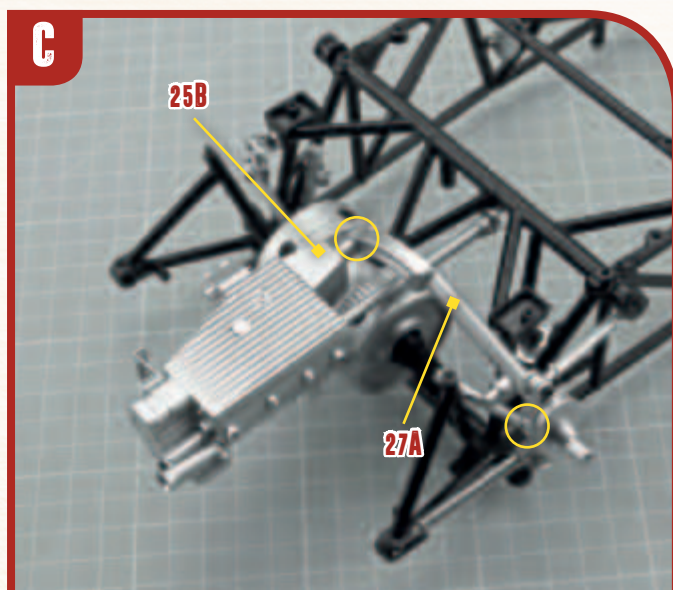
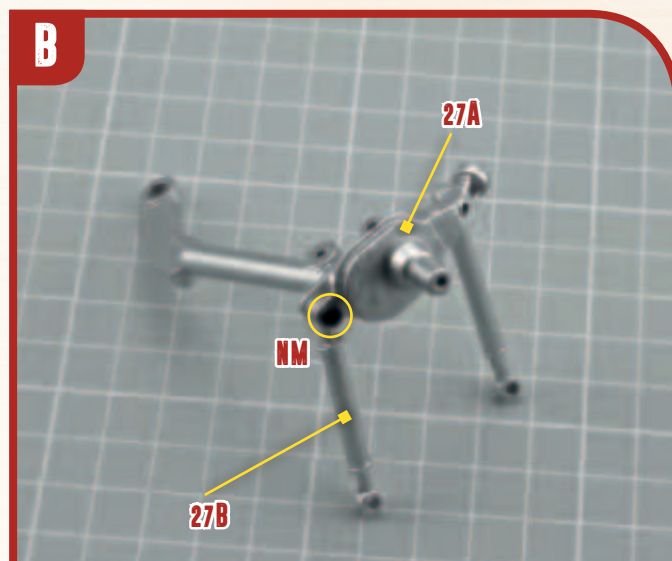
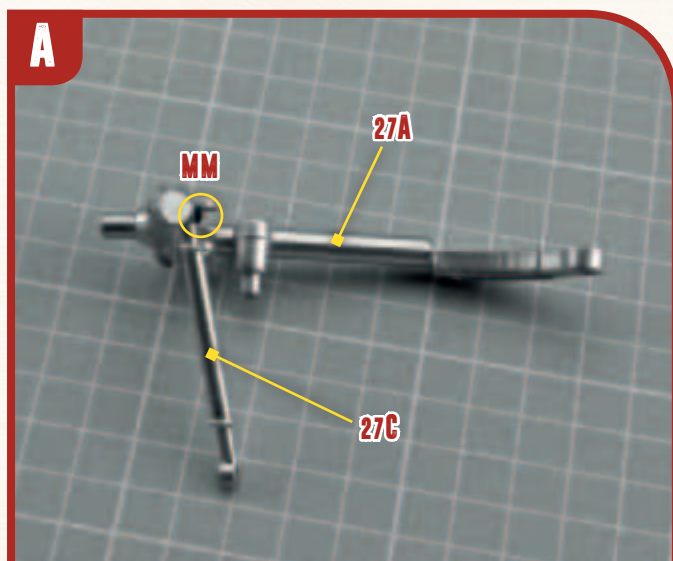
Couple the gearbox to the rear section of the chassis.

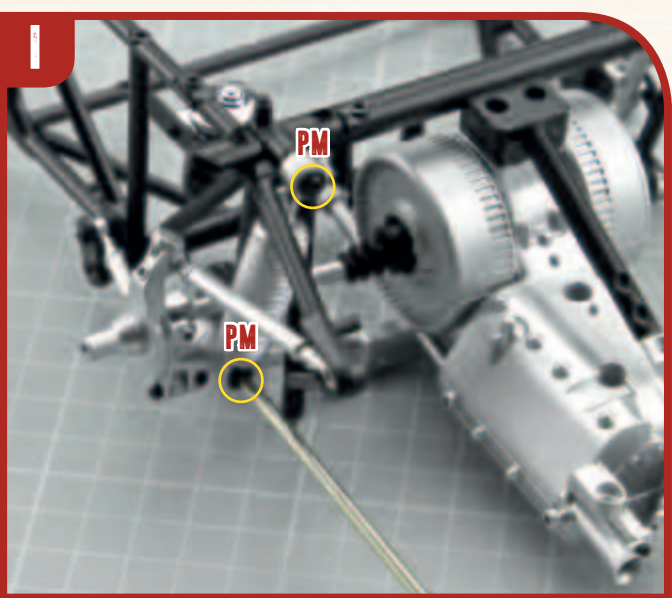
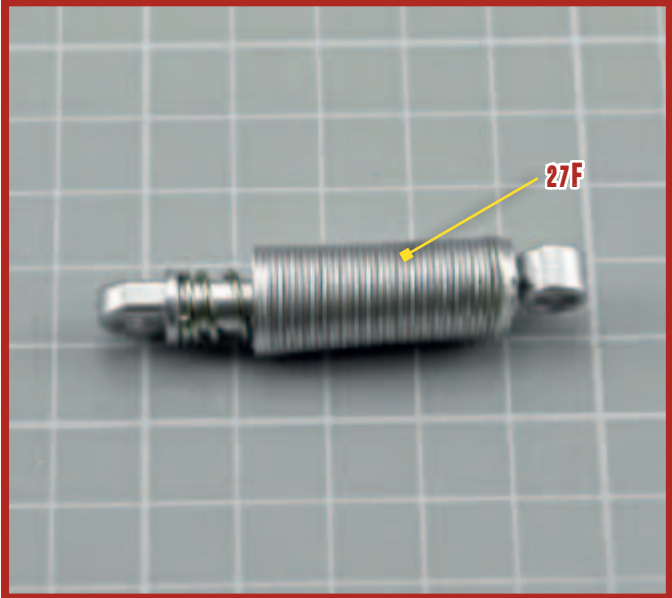
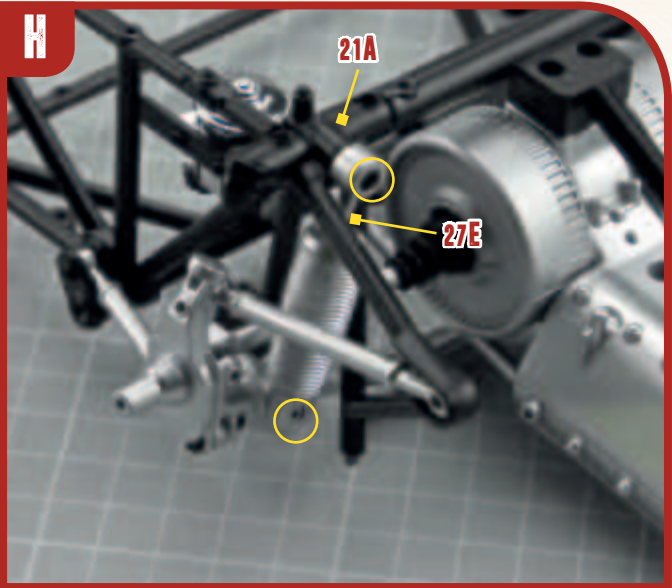
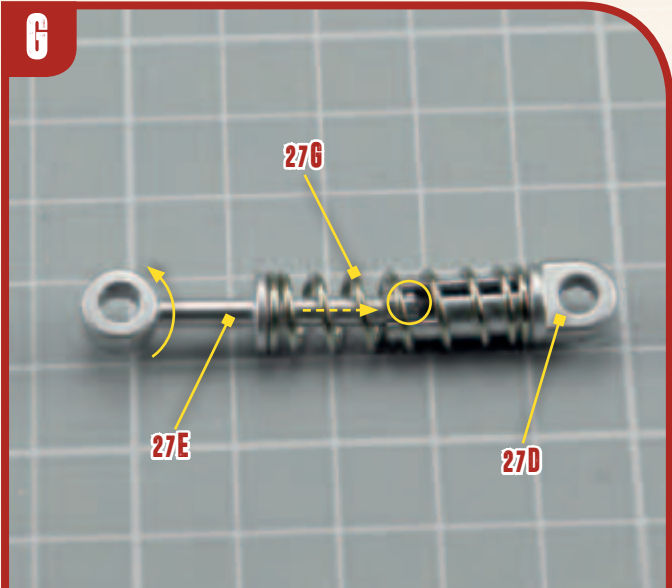
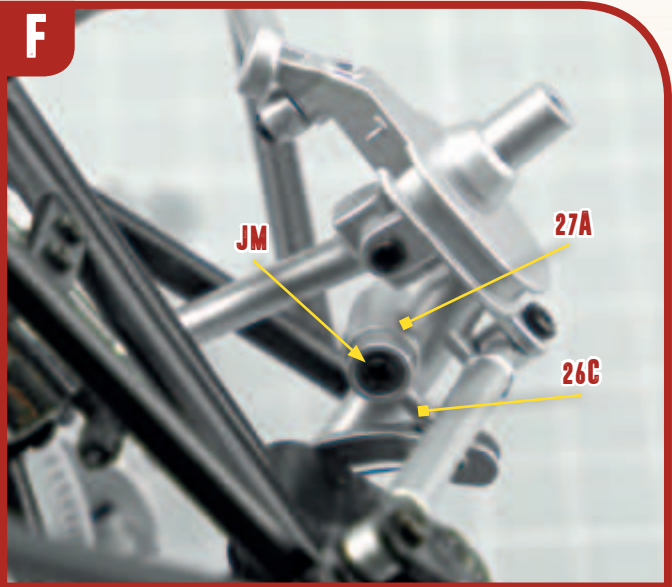
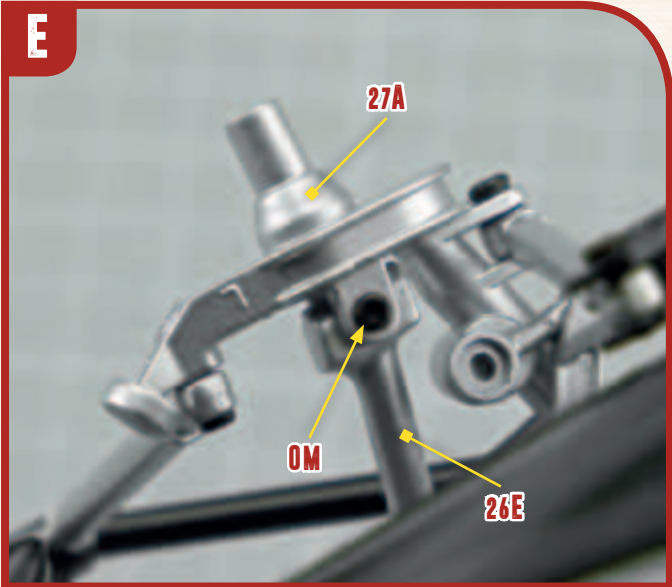


27 PARTS LIST

- 27A** Rear suspension left wishbone
- 27B** Rear suspension left lower arm
- 27C** Rear suspension left upper arm
- 27D** Shock absorber casing
- 27E** Shock absorber stem
- 27F** Shock absorber bellow
- 27G** Spring

- JM** 2 screws (2x5mm)
- MM** 2 screws (2x7mm)
- NM** 3 screws (2.3x7mm)
- OM** 2 screws (2x11mm)
- PM** 3 screws (2x3x6mm)





28 PARTS LIST



28A Rear suspension
right wishbone

28B Right lower arm

28C Right upper arm

28D Shock absorber casing

28E Shock absorber stem

28F Shock absorber bellow

28G Spring

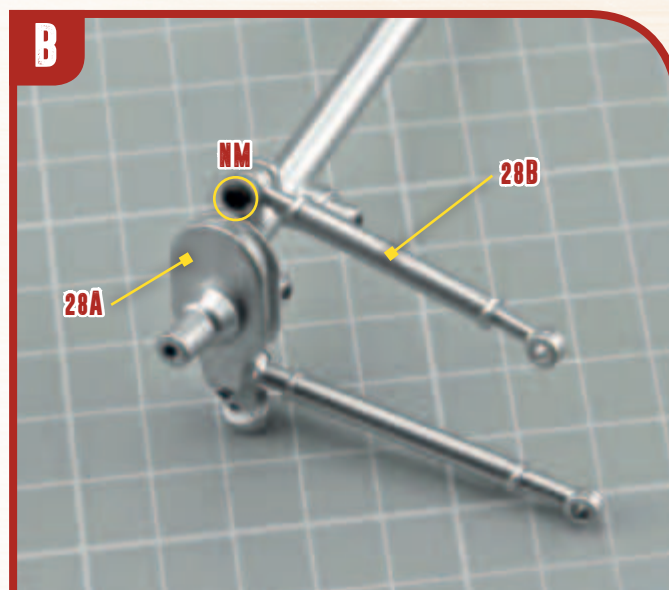
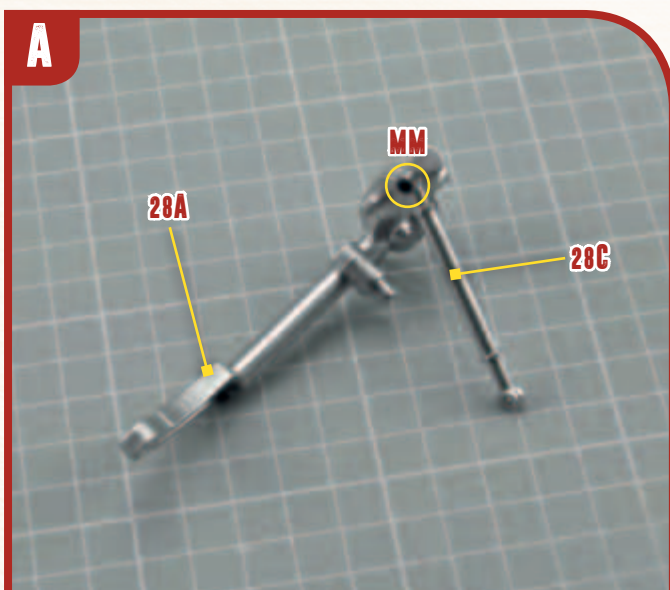
JM 2 screws (2x5mm)

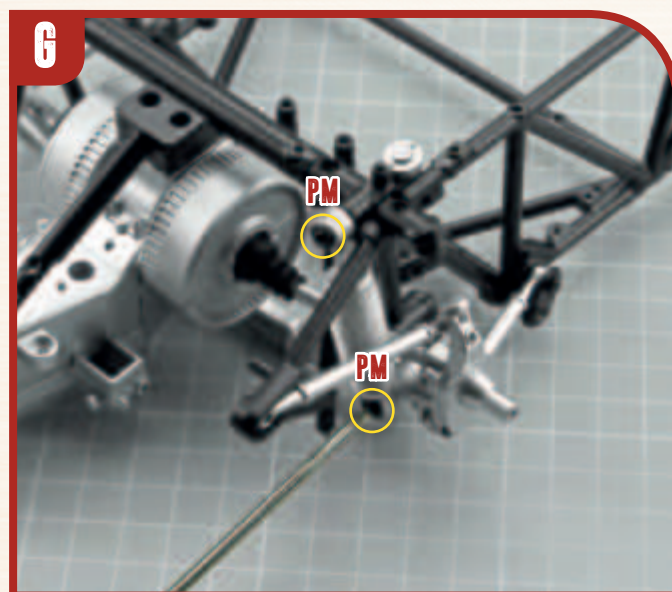
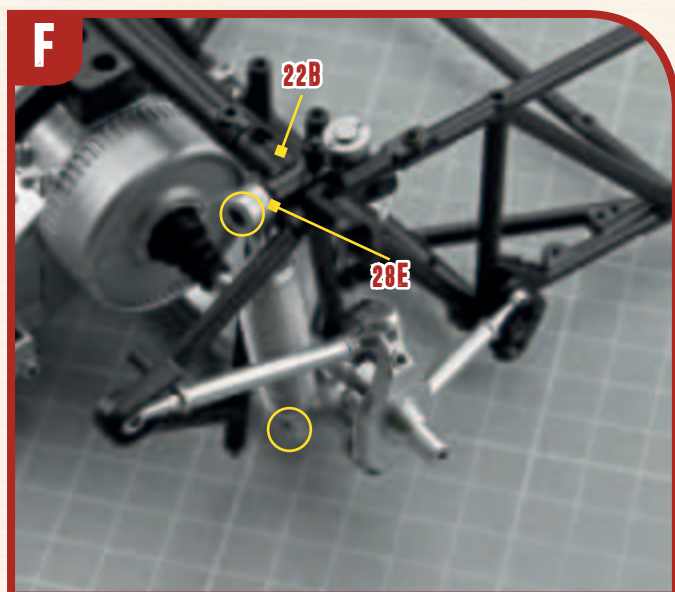
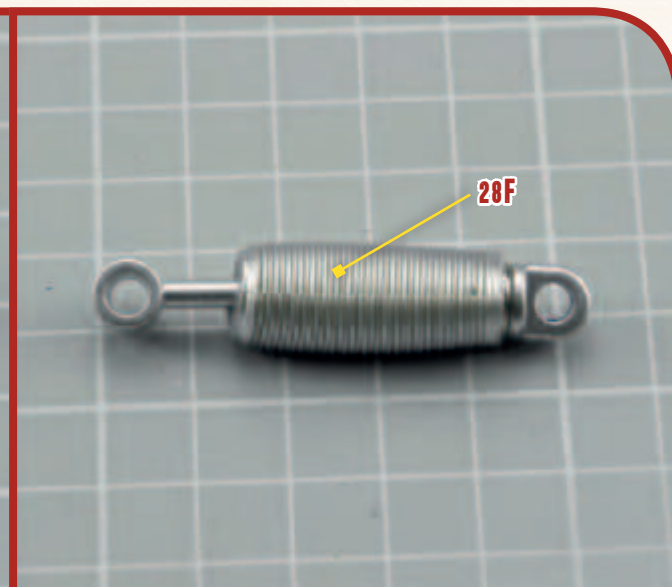
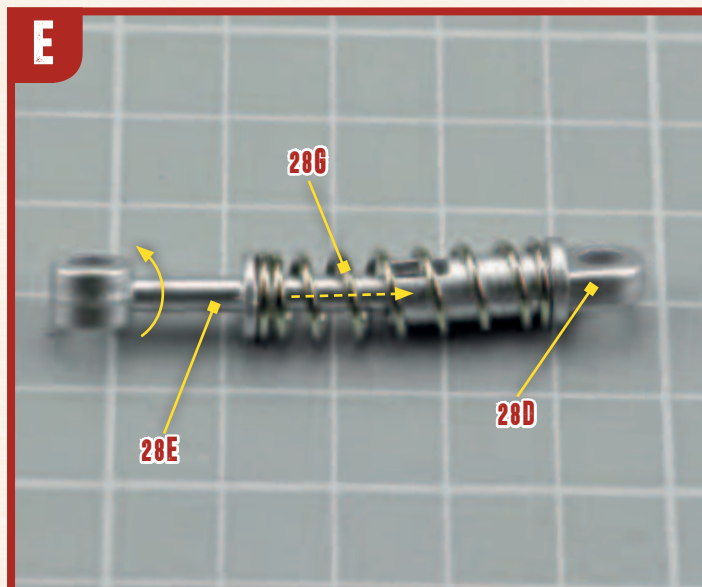
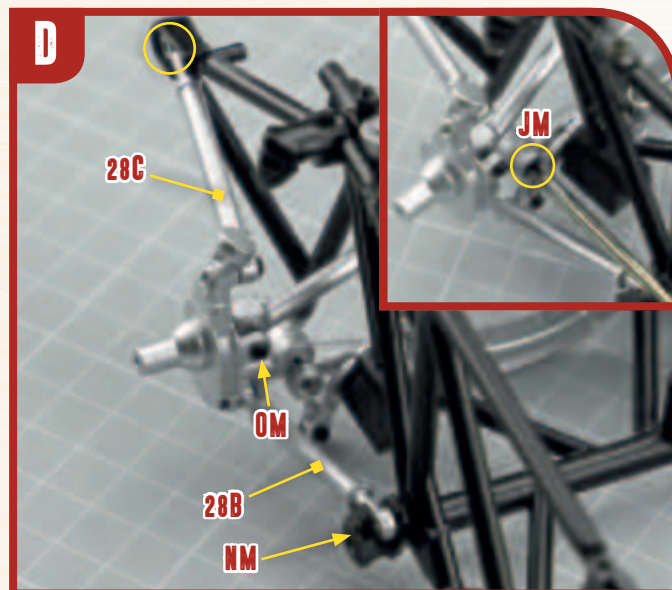
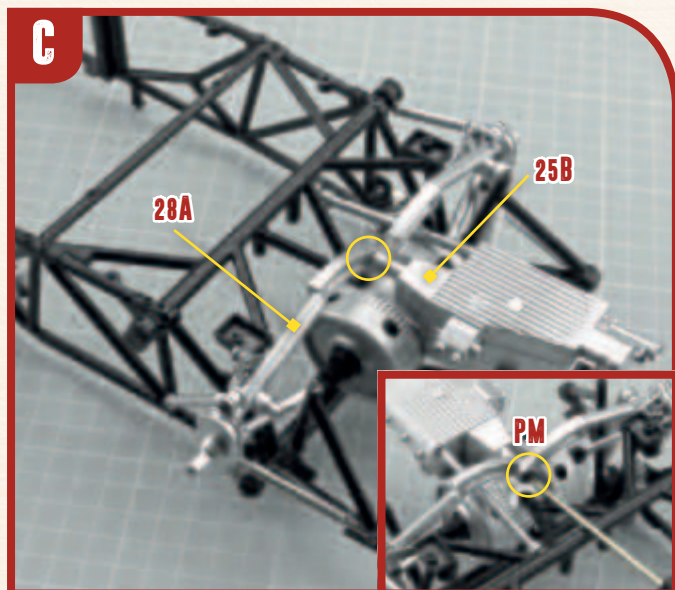
MM 2 screws (2x7mm)

NM 3 screws (2.3x7mm)

OM 2 screws (2x11mm)

PM 4 screws (2x3x6mm)





29 PARTS LIST



29A Rear subframe

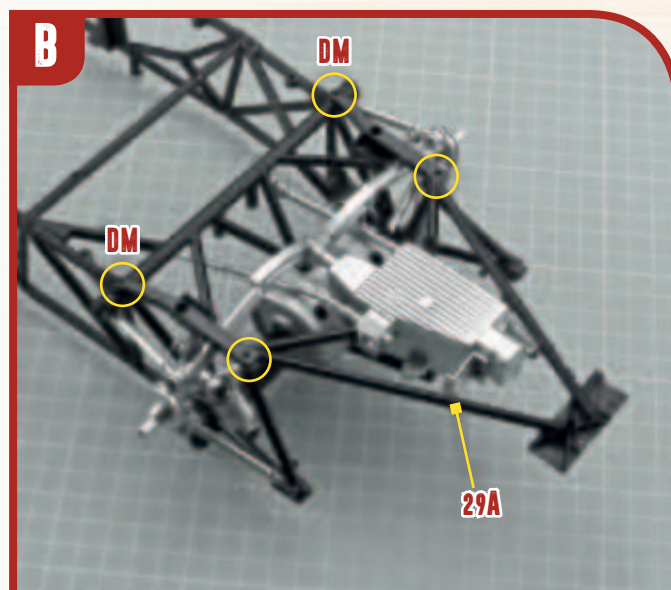
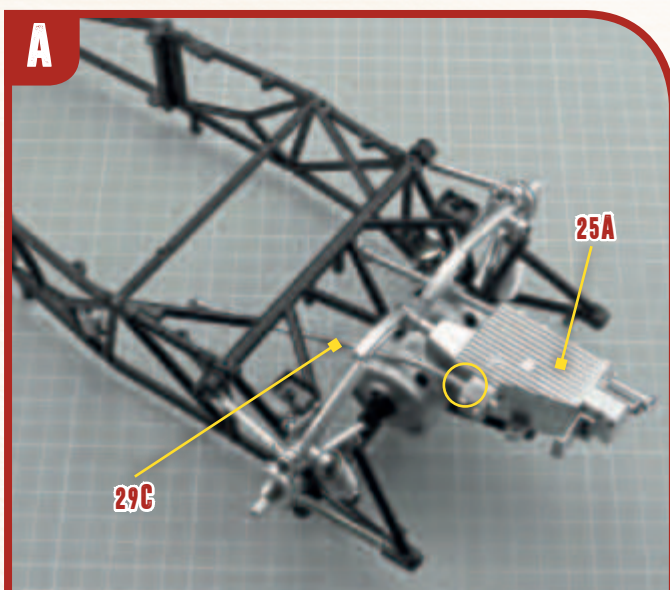
29B Rear subframe tube

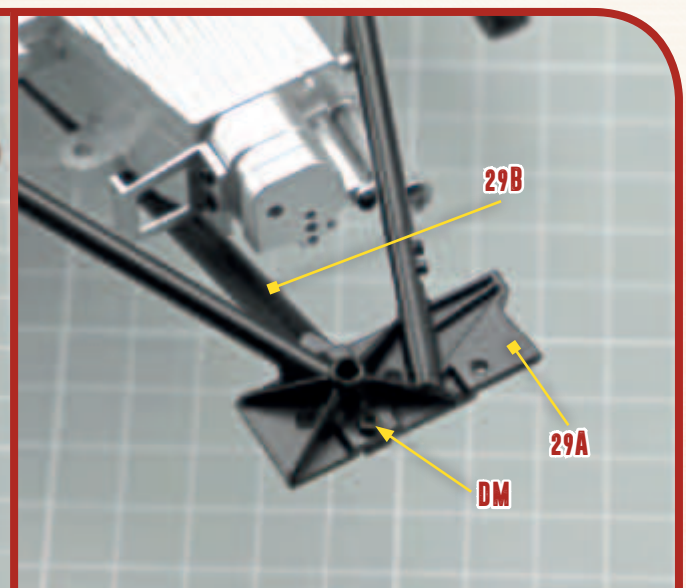
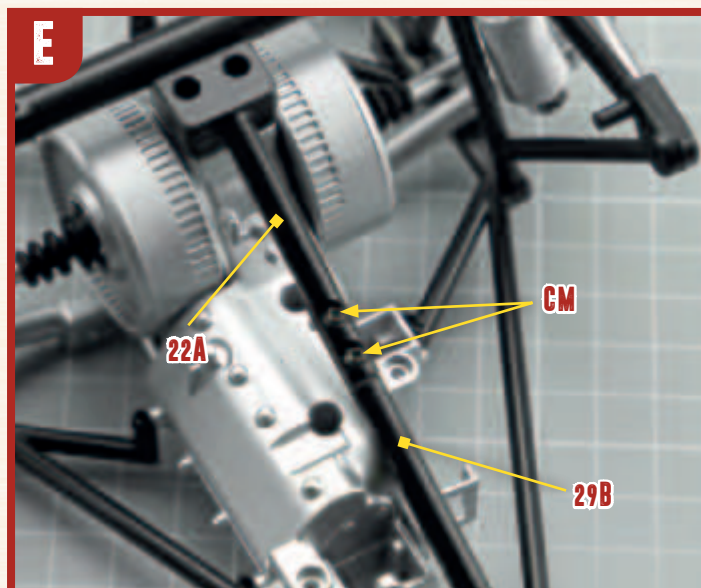
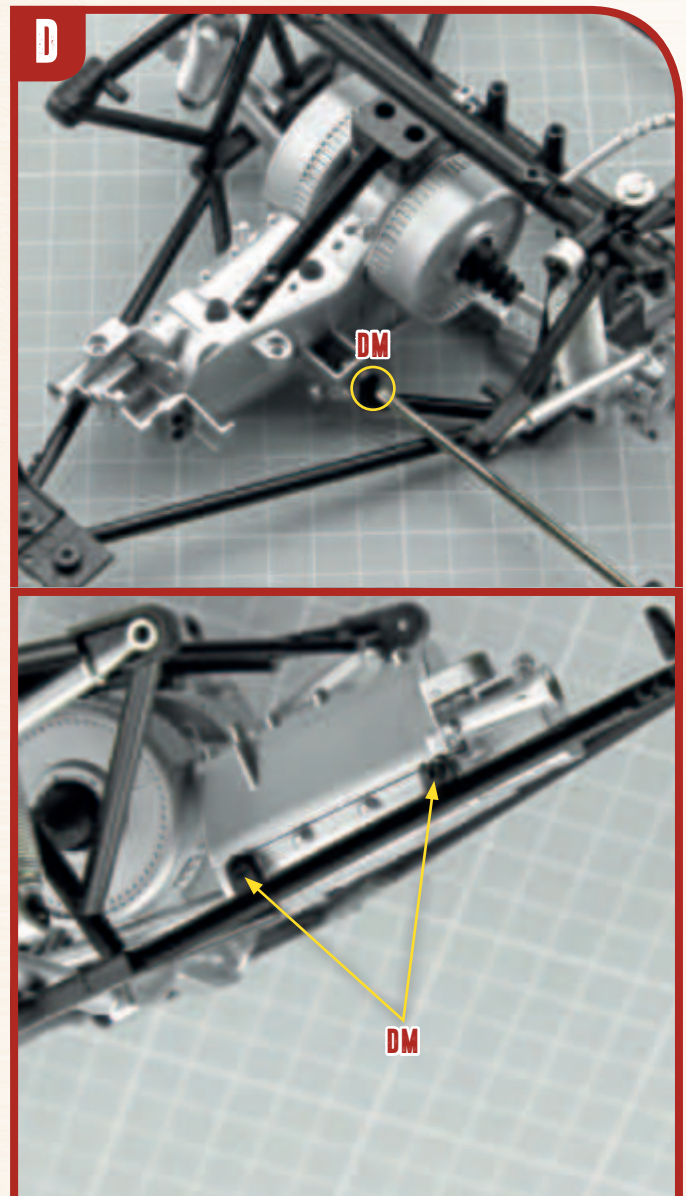
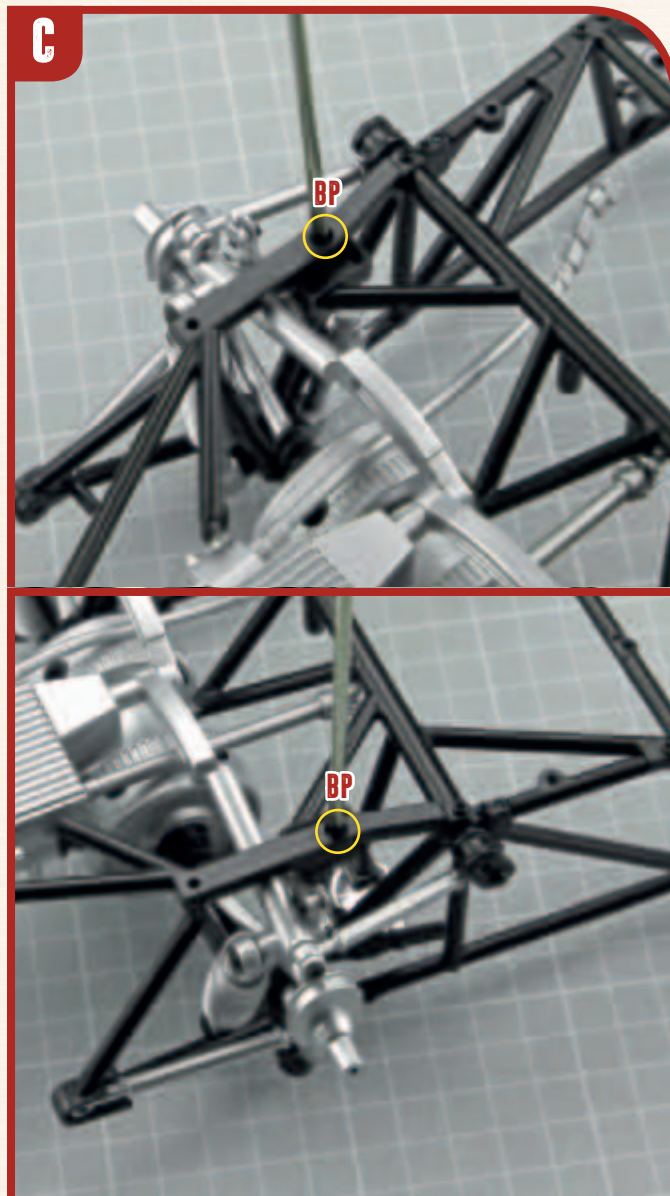
29C Gearbox lever

BP 3 screws (2x5mm)

CM 3 screws (1.7x4mm)

DM 7 screws (2x4mm)

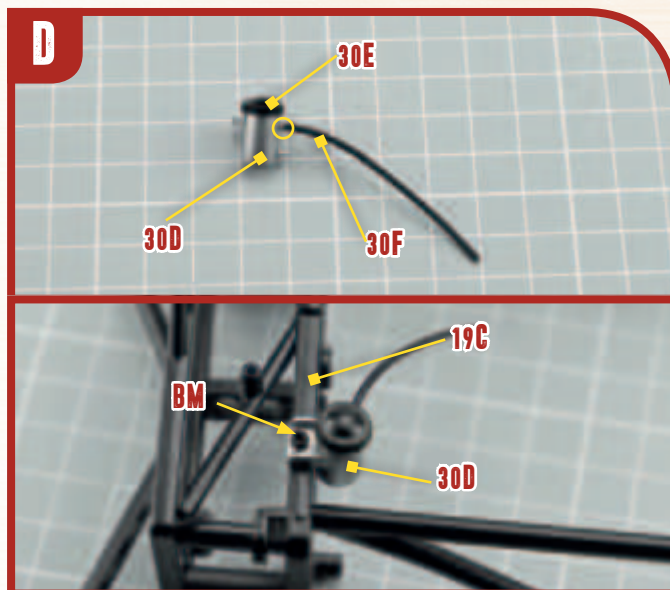
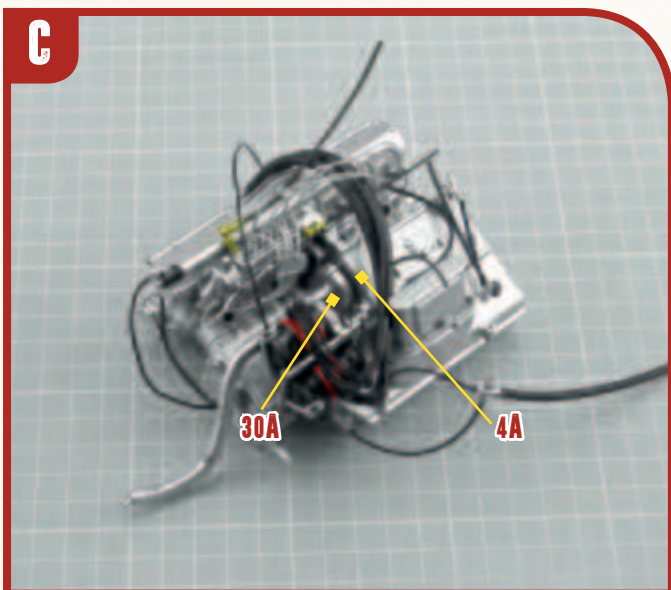
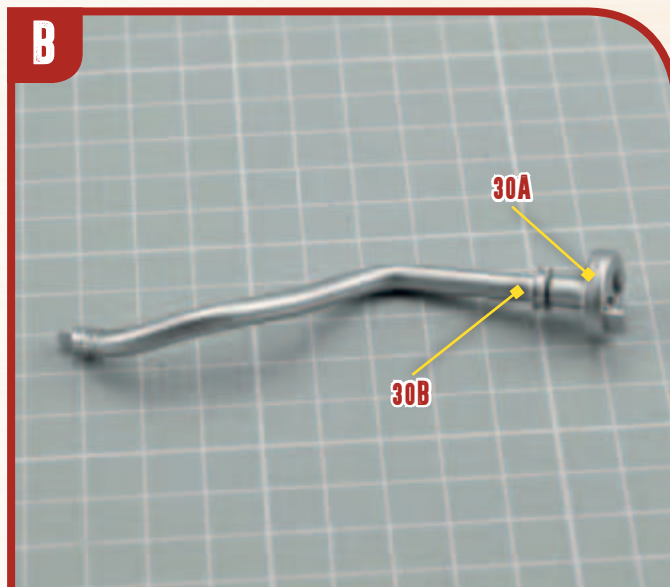
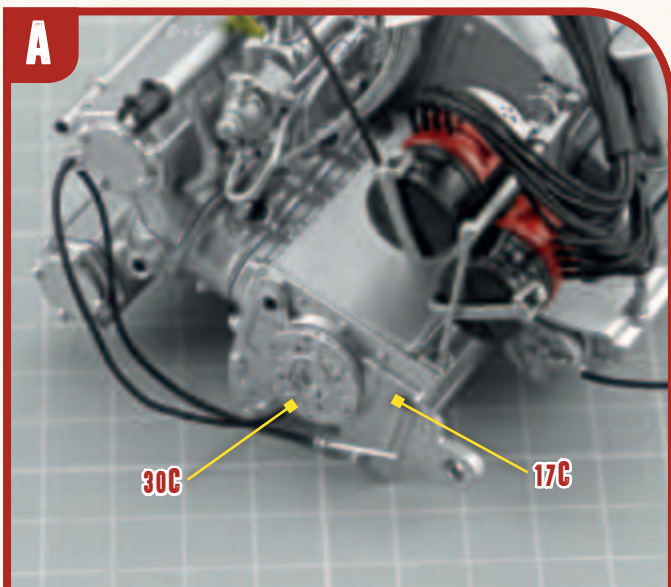




30 PARTS LIST

- 30A** Water pump
- 30B** Pipe
- 30C** Crankshaft front coupling
- 30D** Fuel pump oil reservoir
- 30E** Reservoir cap
- 30F** Oil hose

BM 2 screws (1.7x3mm)



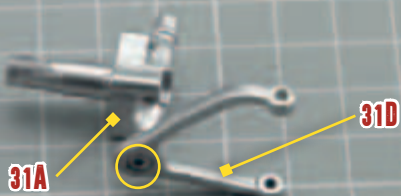
31 PARTS LIST



- 31A** Spindle part A
- 31B** Spindle part B
- 31C** Lower suspension arm
- 31D** Upper suspension arm
- 31E** Shock absorber stem
- 31F** Shock absorber casing
- 31G** Torsion bar
- 31H** Spring

- CM** 2 screws (1.7x4mm)
- PM** 4 screws (2x3x6mm)
- QM** 4 screws (2x8mm)
- RM** 2 screws (2x14mm)

A



B



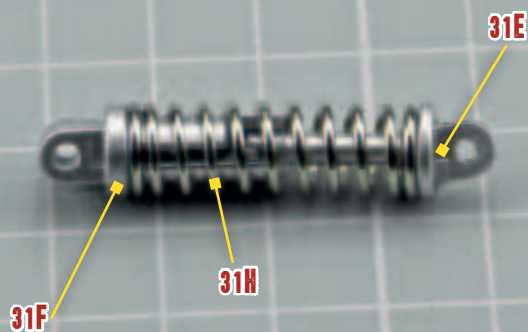
PM

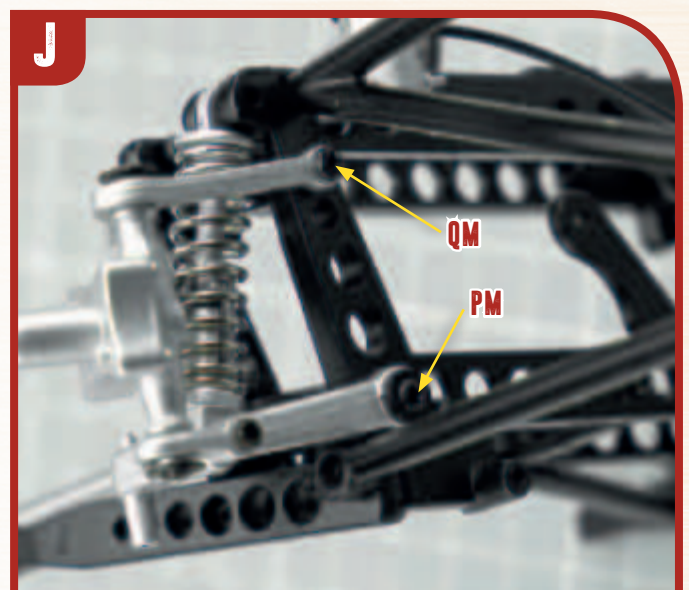
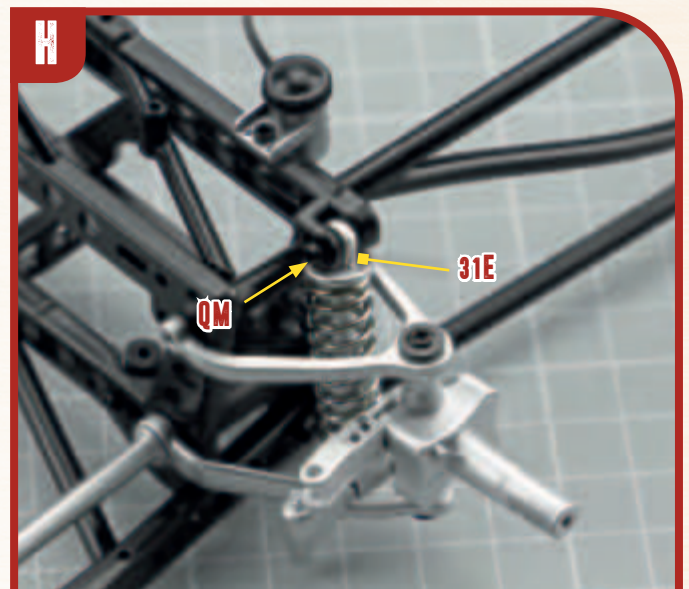
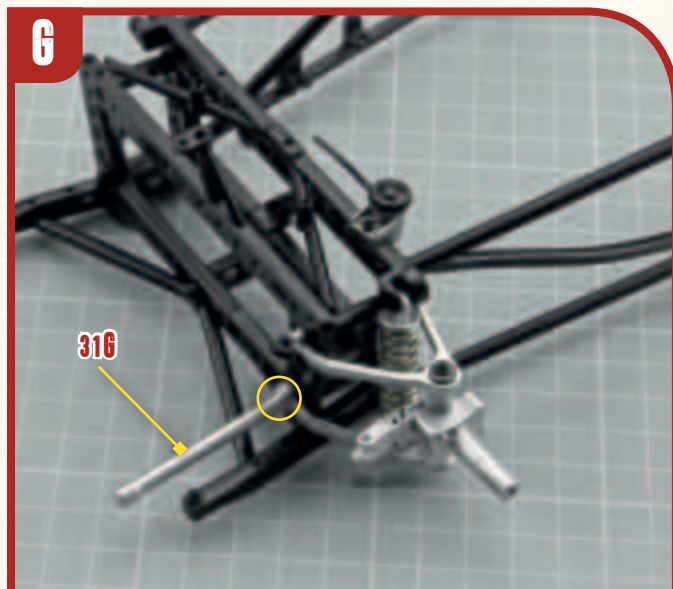
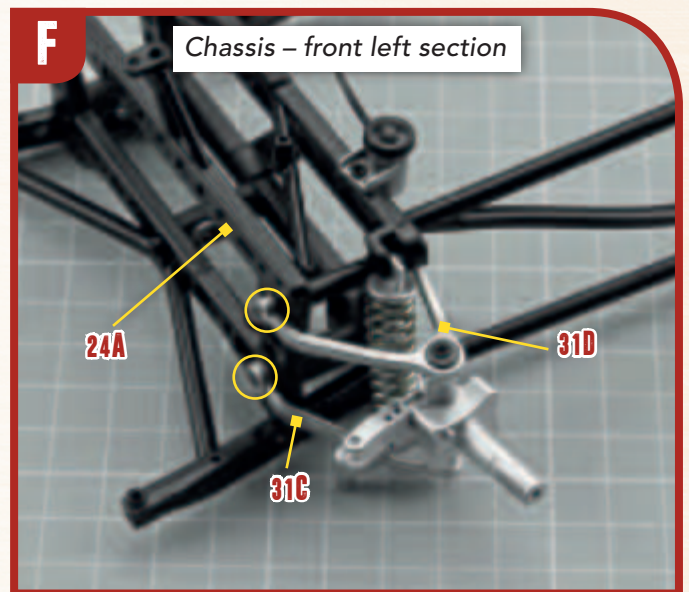
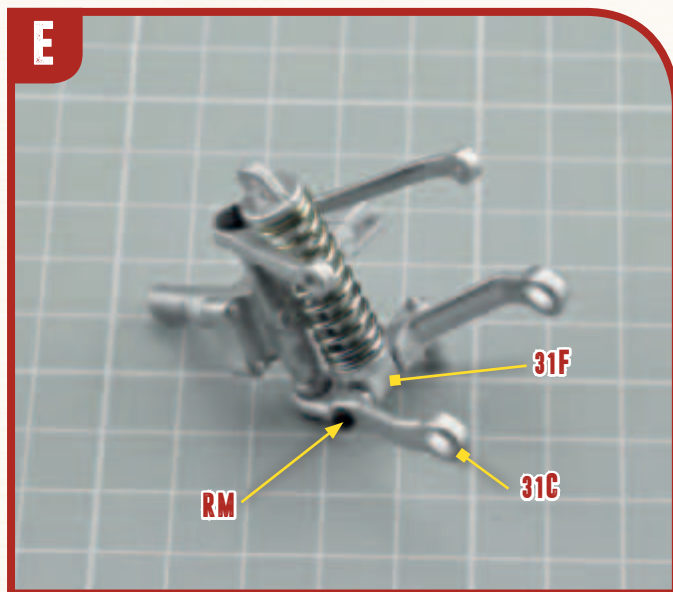
PM

C



D





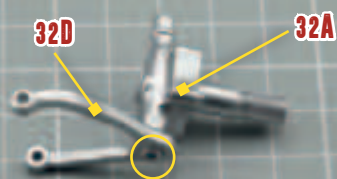
32 PARTS LIST



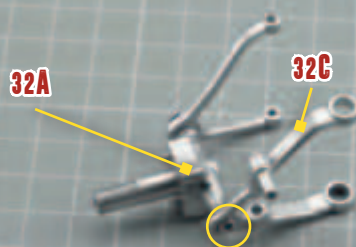
- 32A** Spindle part A
- 32B** Spindle part B
- 32C** Lower suspension arm
- 32D** Upper suspension arm
- 32E** Shock absorber stem
- 32F** Shock absorber casing
- 32G** Torsion bar
- 32H** Spring

- CM** 2 screws (1.7x4mm)
- PM** 4 screws (2x3x6mm)
- QM** 4 screws (2x8mm)
- RM** 2 screws (2x14mm)

A



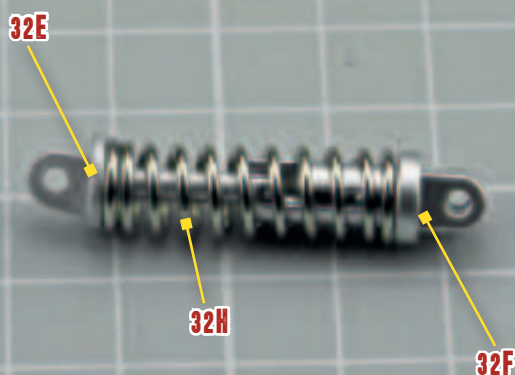
B

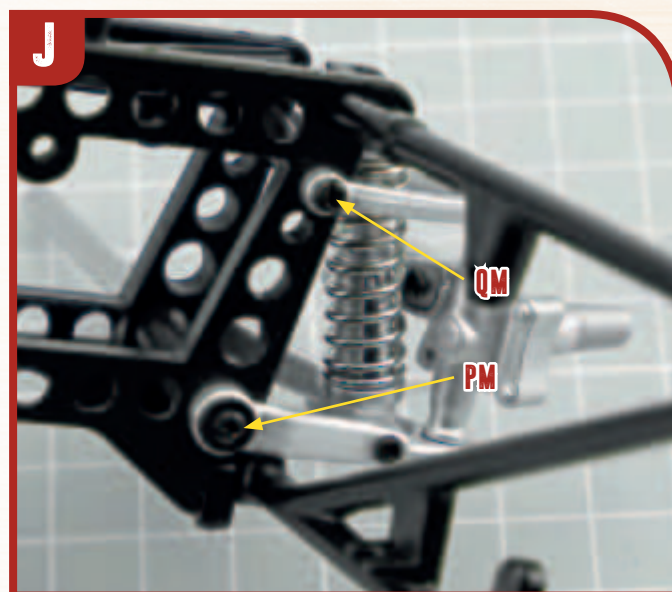
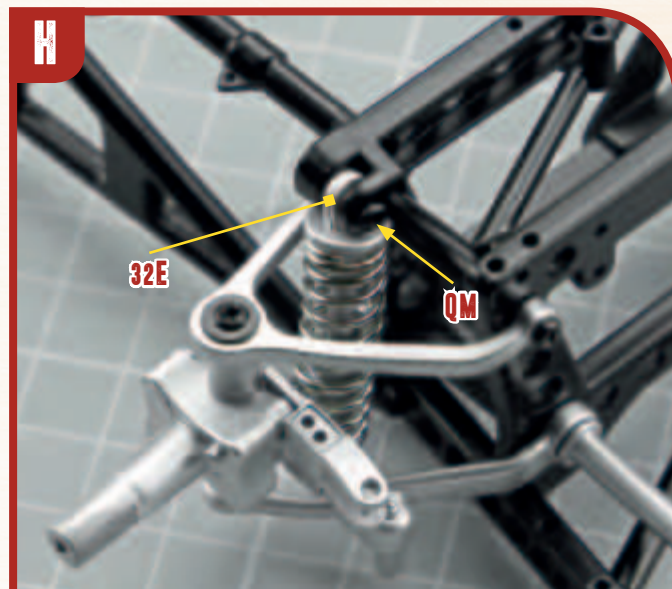
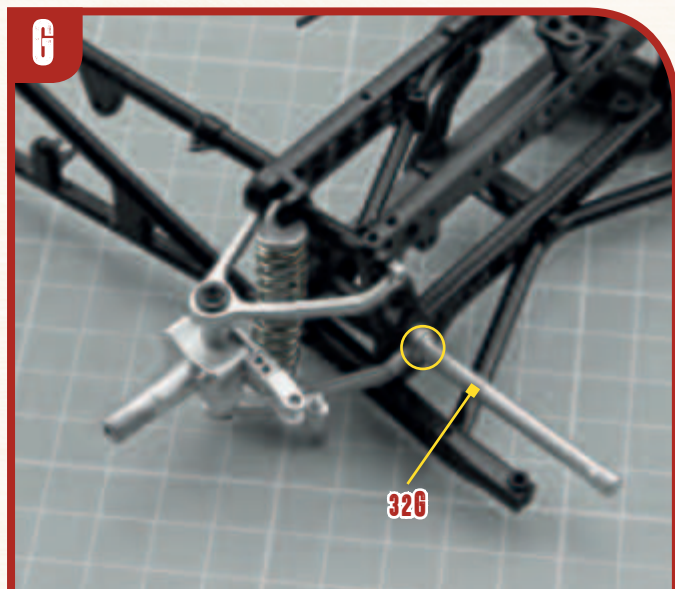
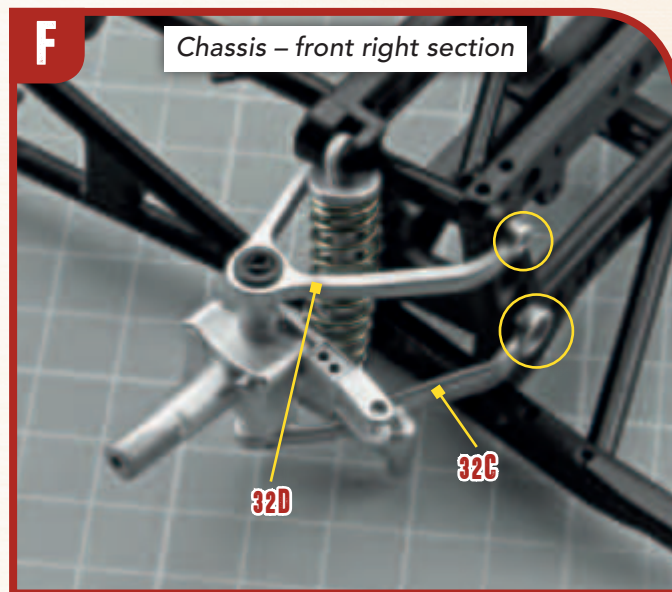
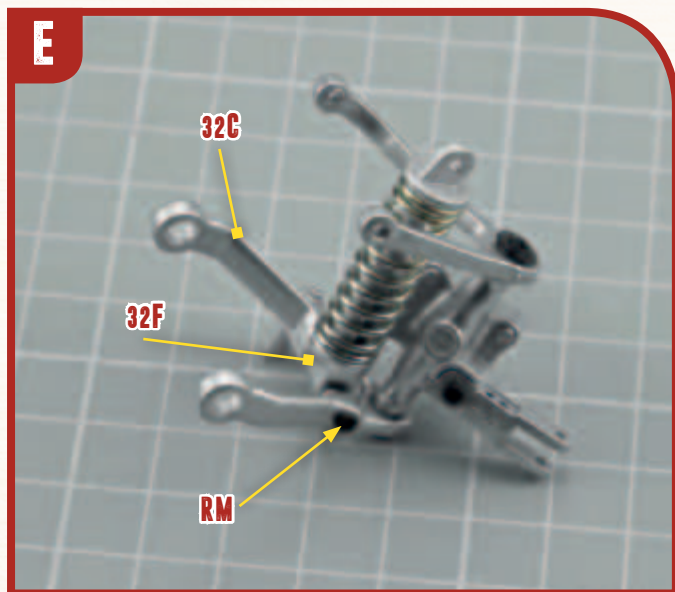


C



D

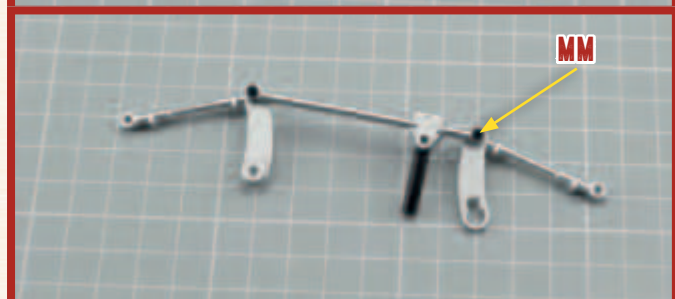
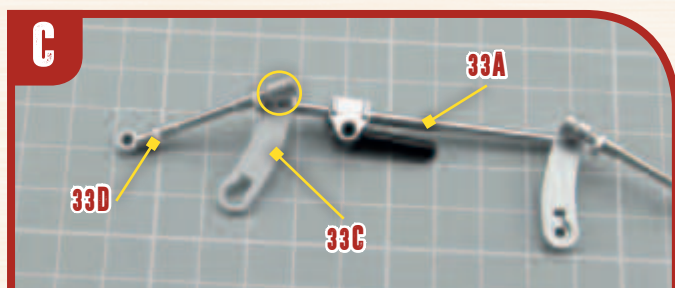
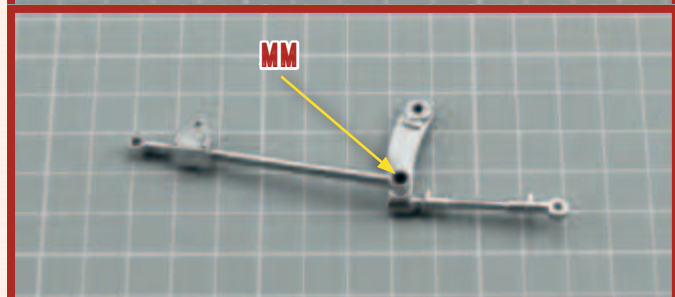
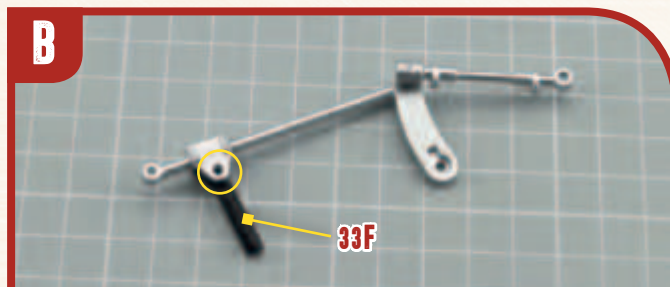
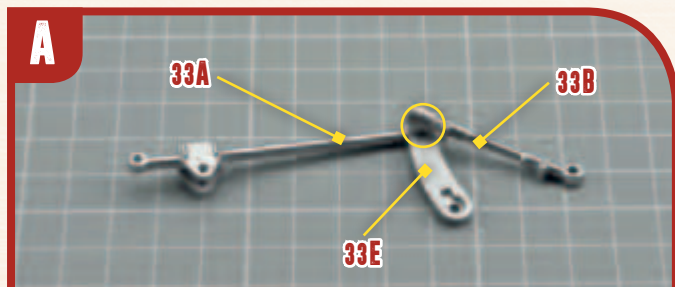




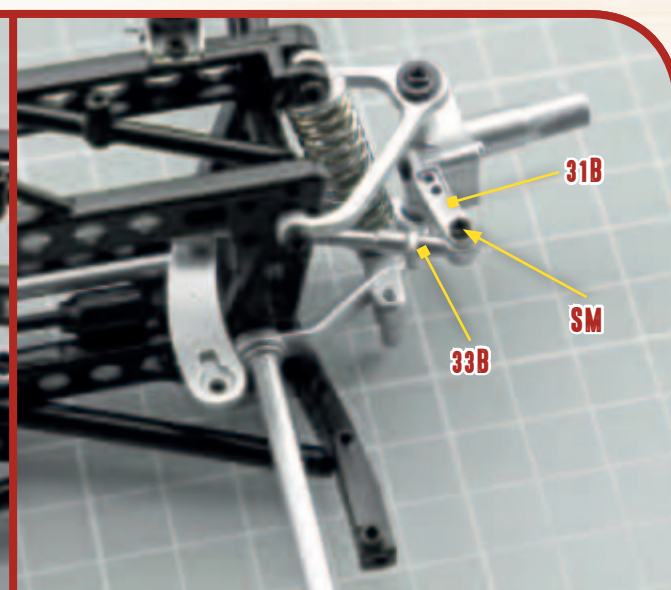
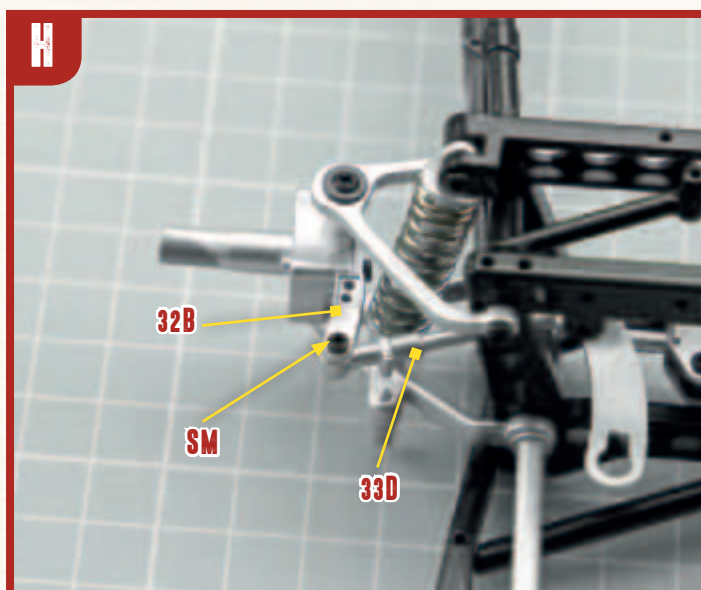
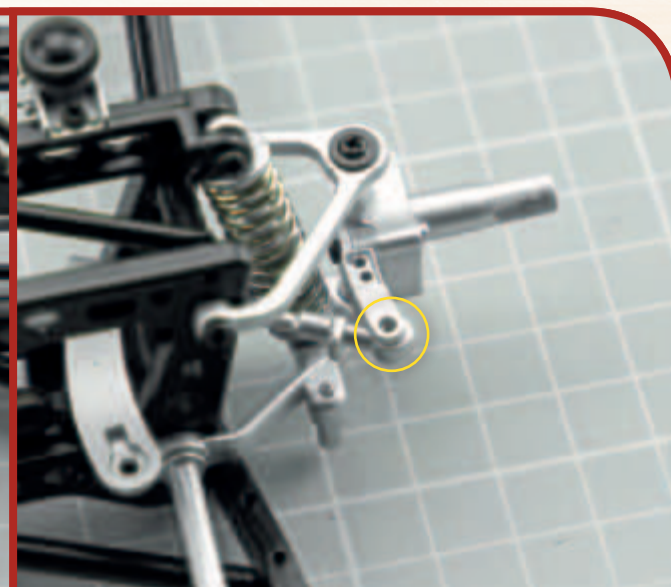
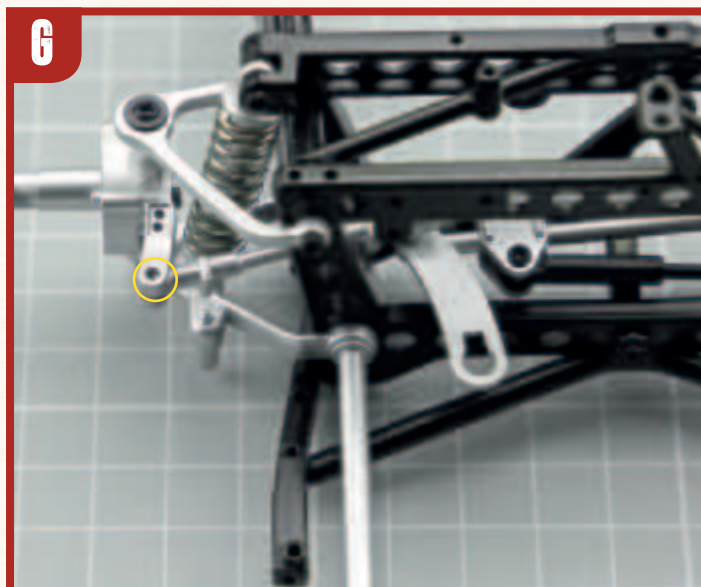
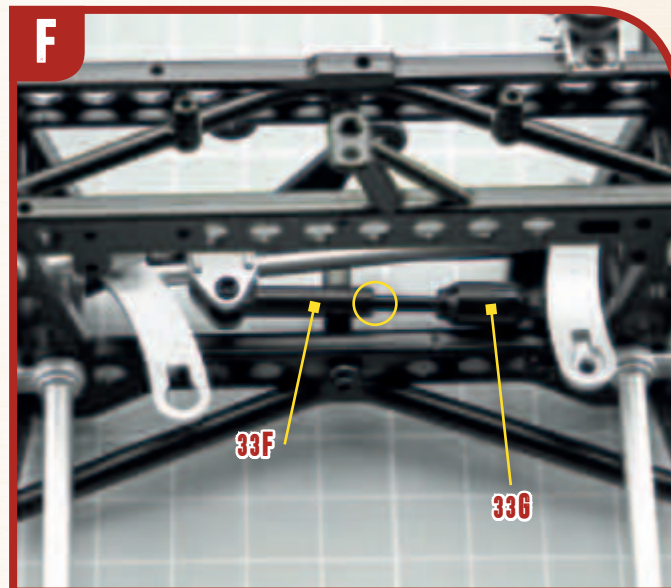
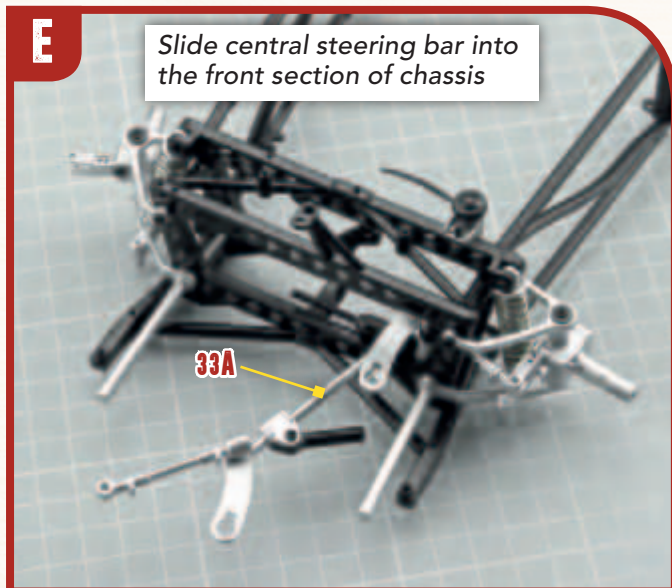
33 PARTS LIST

- 33A** Central steering bar
- 33B** Left tie rod
- 33C** Right plate
- 33D** Right tie rod
- 33E** Left plate
- 33F** Arm 1
- 33G** Arm 2

- BP** 2 screws (2x5mm)
- MM** 4 screws (2x7mm)
- SM** 3 screws (1.7x6mm)



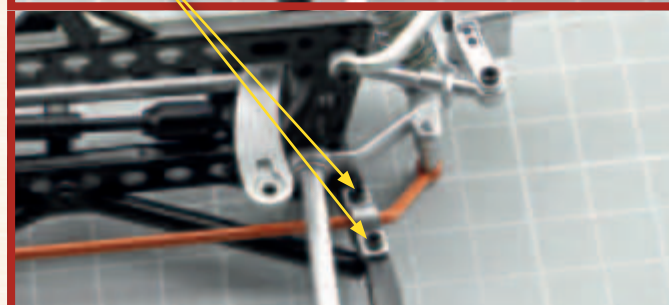
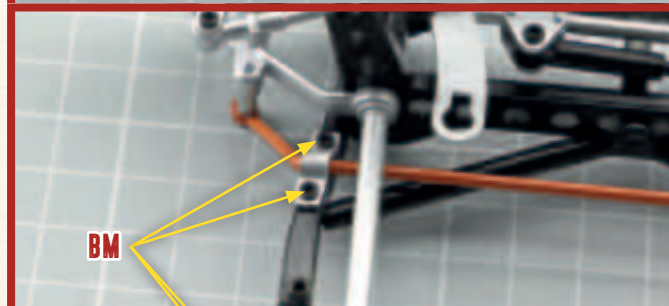
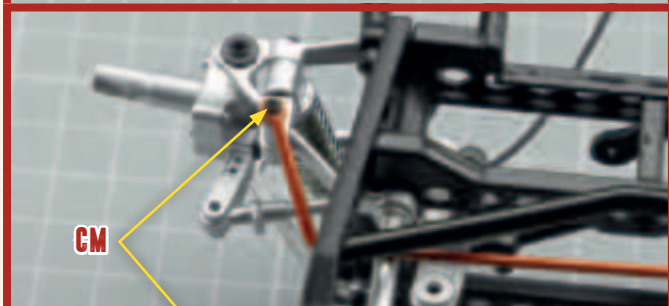
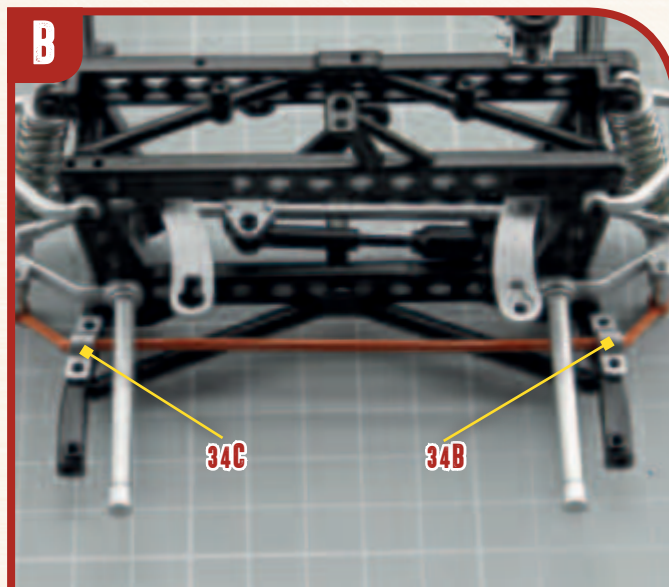
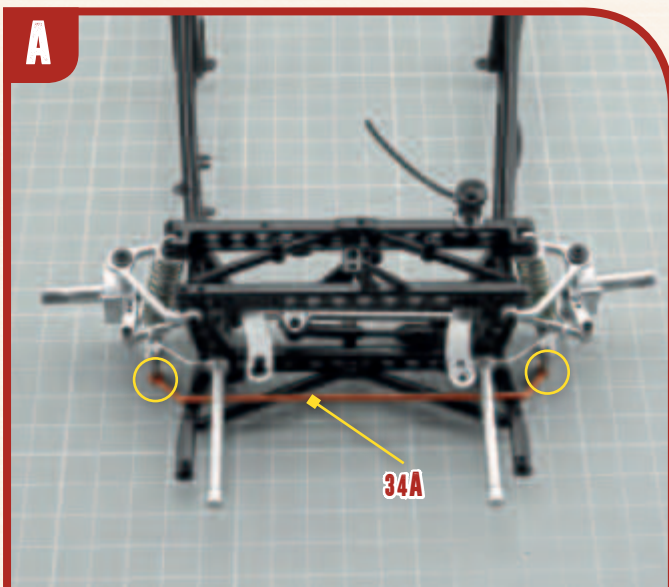
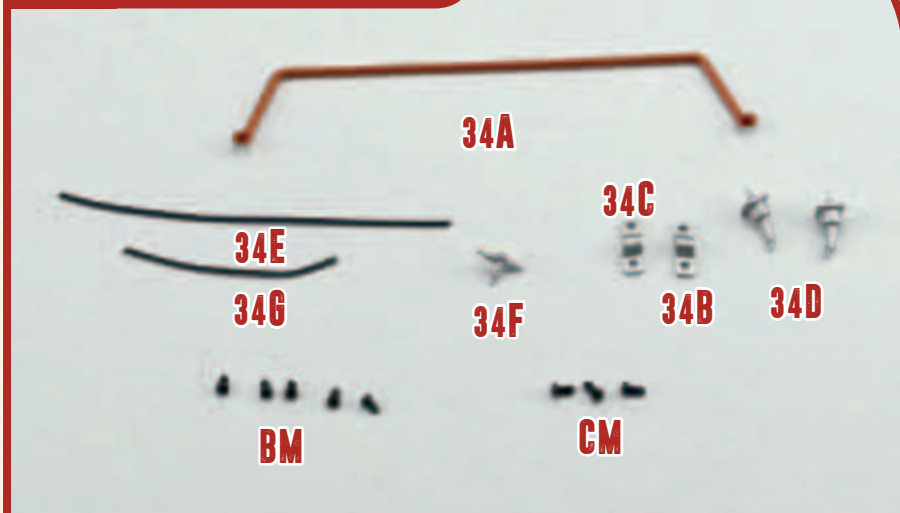
stepbystep #33

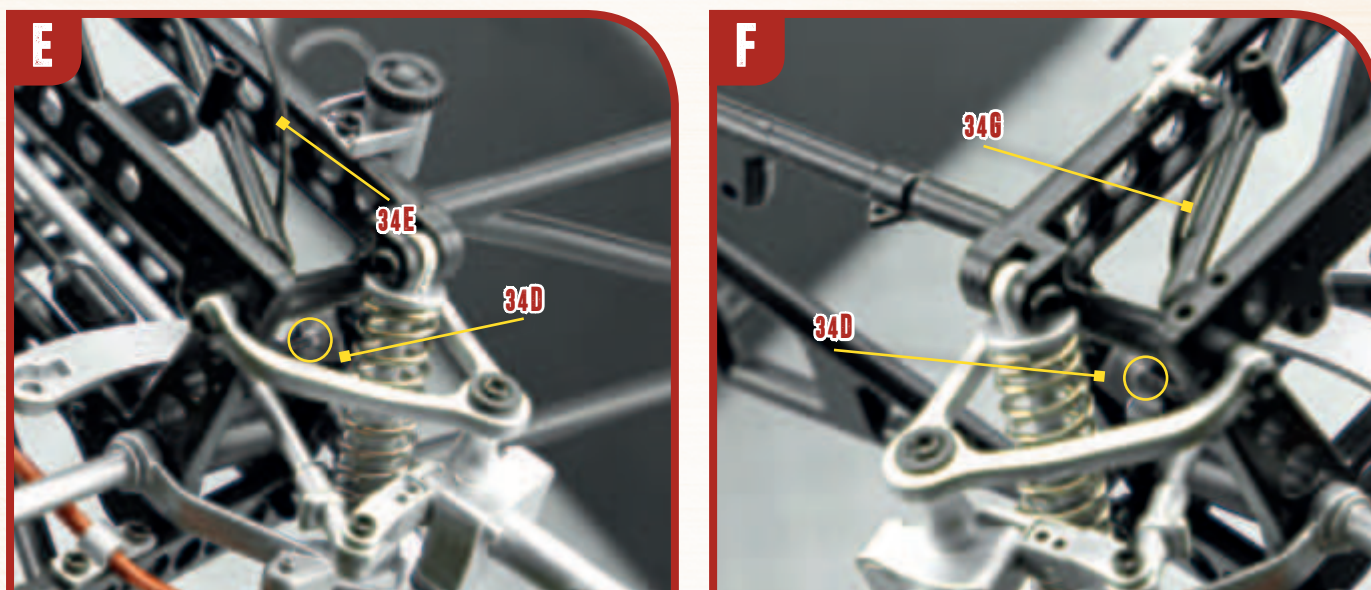
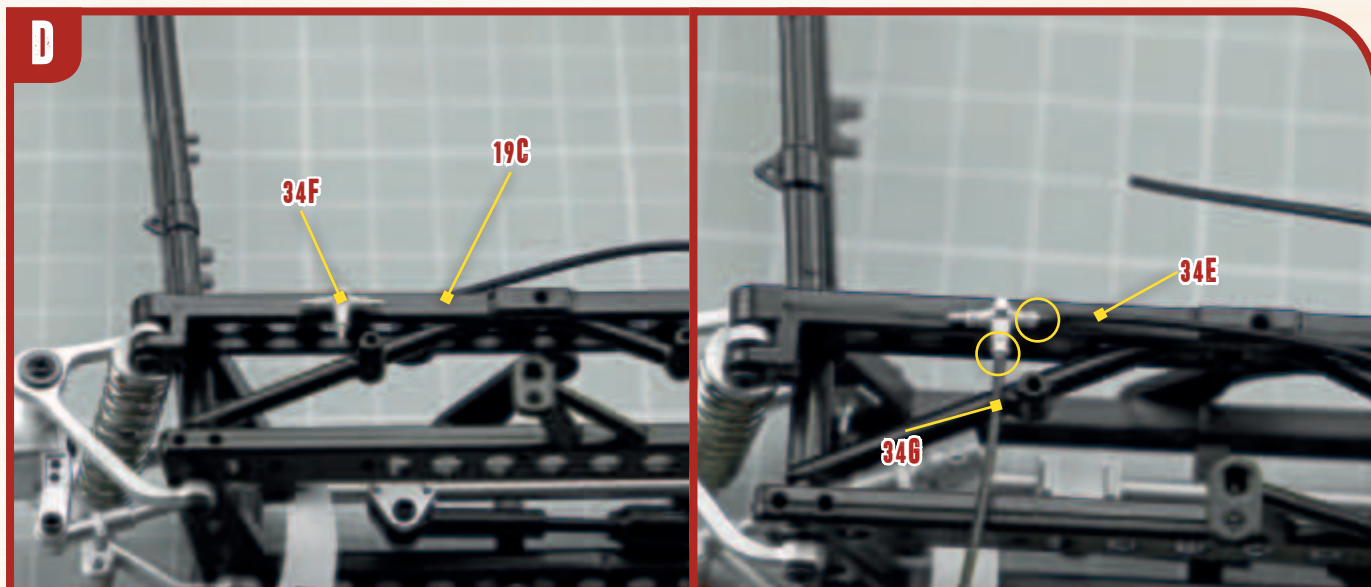
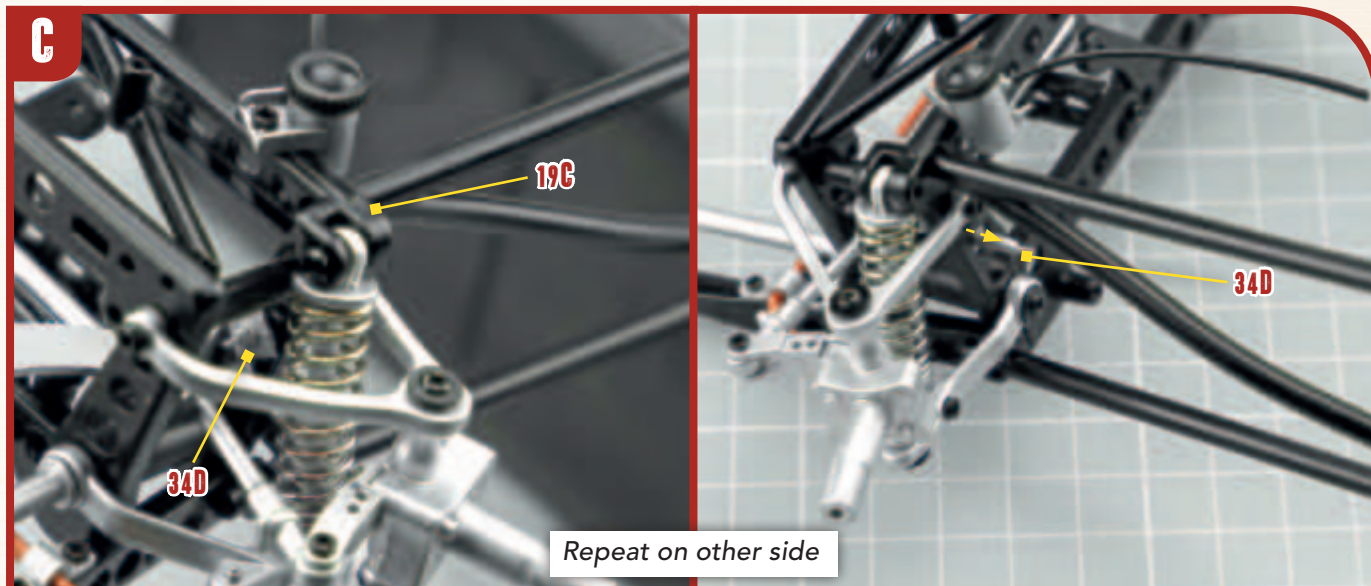


34 PARTS LIST

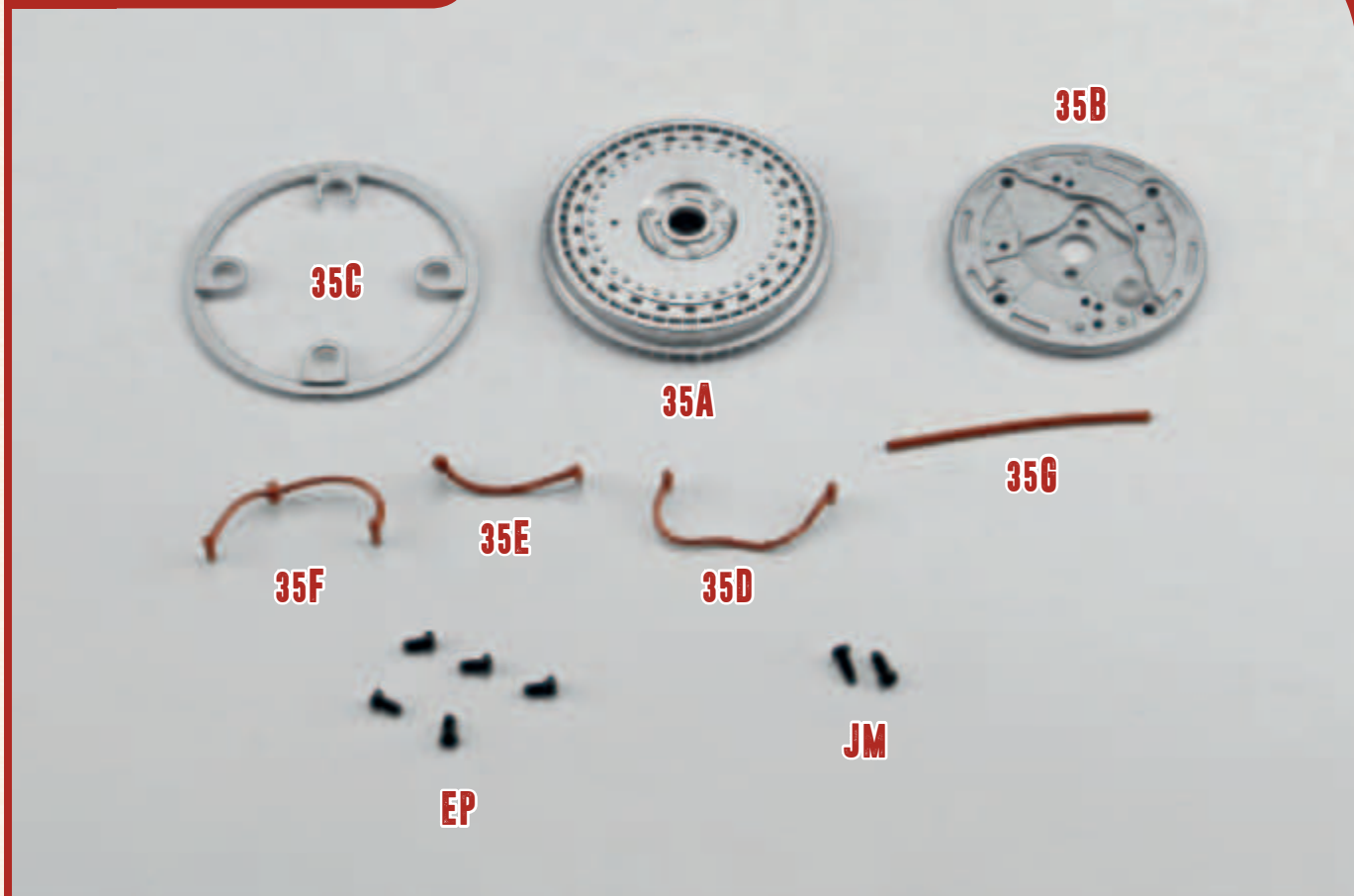
- 34A** Front axle stabilizer bar
- 34B** Left bracket
- 34C** Right bracket
- 34D** Brake cables links (x2)
- 34E** Left brake cable
- 34F** Brake distributor
- 34G** Right brake cable

- BM** 5 screws (1.7x3mm)
- CM** 3 screws (1.7x4mm)

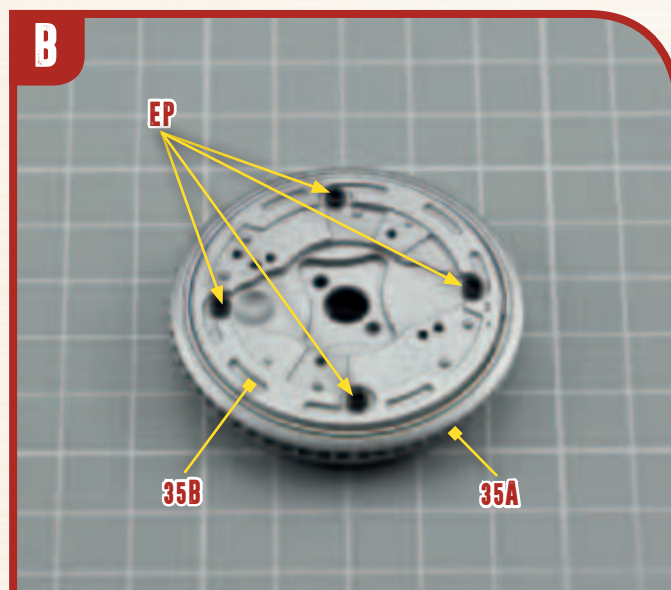
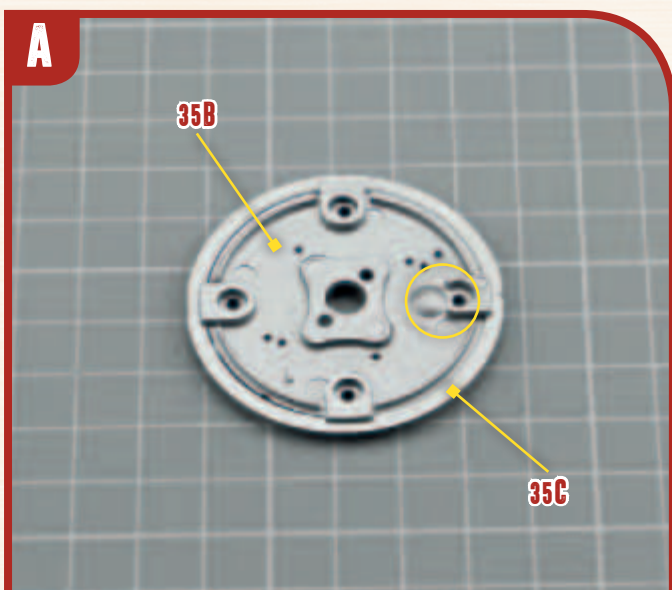


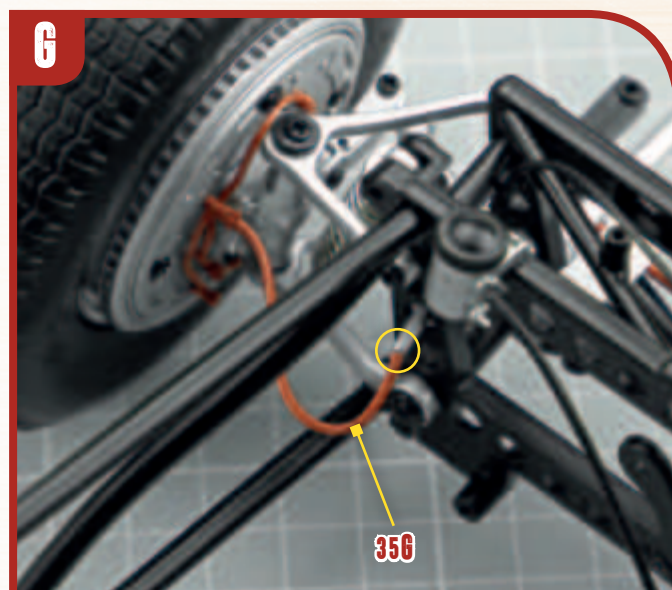
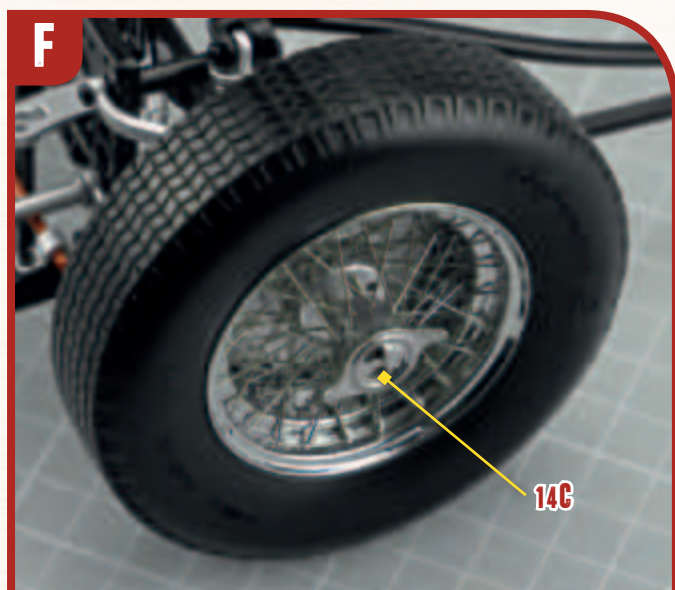
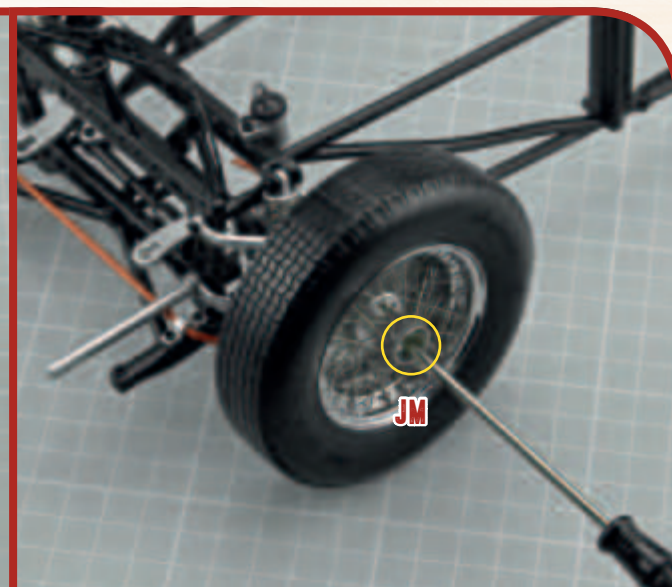
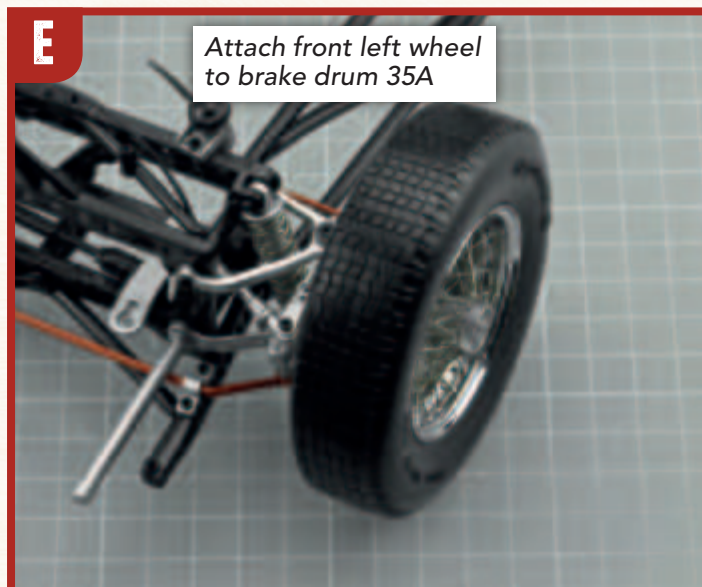
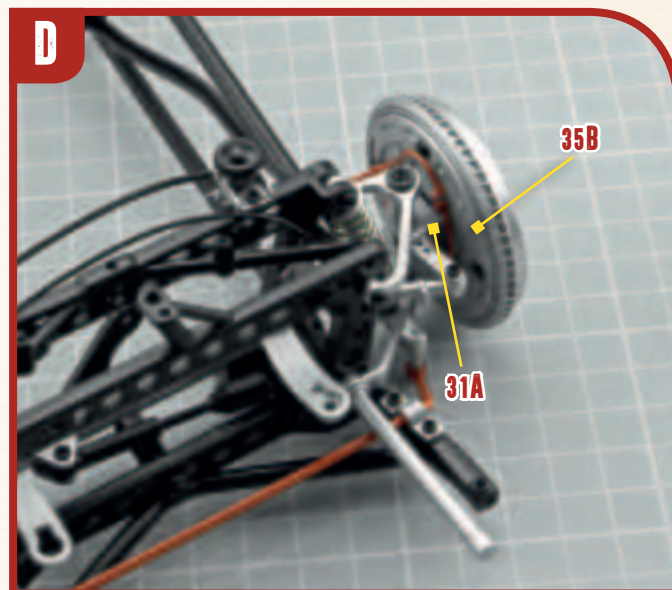
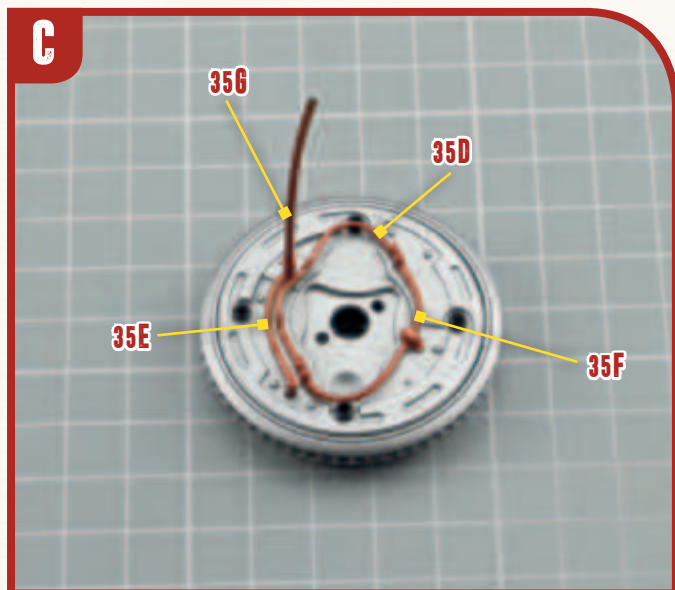


35 PARTS LIST



- | | | |
|-------------------------------|-------------------------------|----------------------------|
| 35A Brake drum | 35E Brake drum cable 2 | EP 5 screws (2x4mm) |
| 35B Brake plate part A | 35F Brake drum cable 3 | JM 2 screws (2x5mm) |
| 35C Brake plate part B | 35G Brake drum cable 4 | |
| 35D Brake drum cable 1 | | |





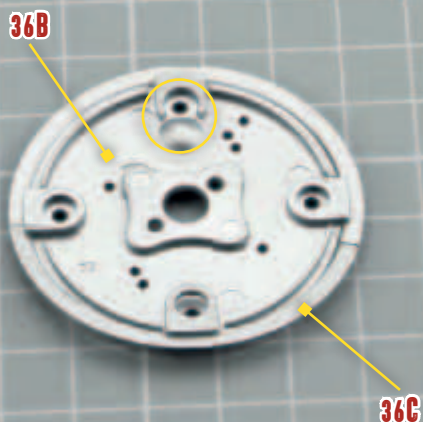
36 PARTS LIST



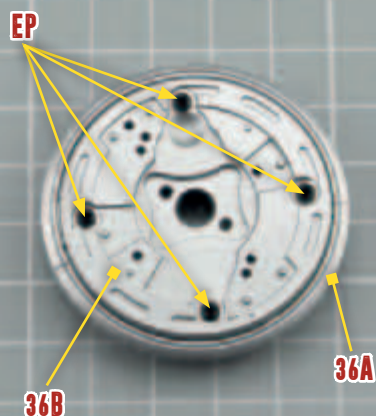
- 36A** Brake drum
- 36B** Brake plate part A
- 36C** Brake plate part B
- 36D** Brake drum cable 1
- 36E** Brake drum cable 2
- 36F** Brake drum cable 3
- 36G** Brake drum cable 4

EP 5 screws (2x4mm)

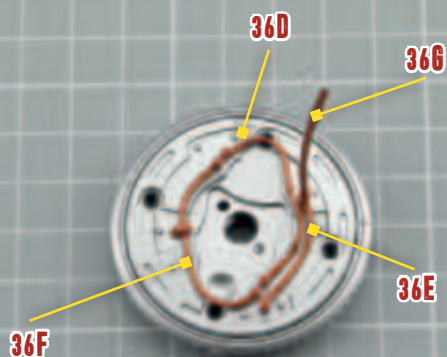
A



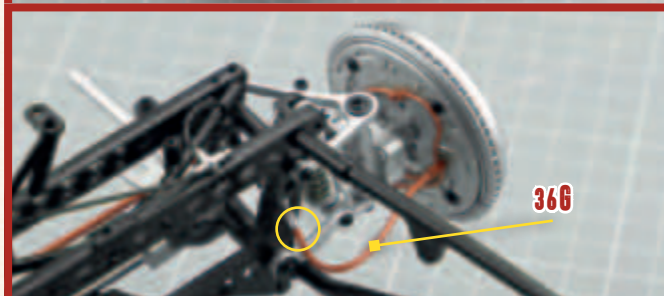
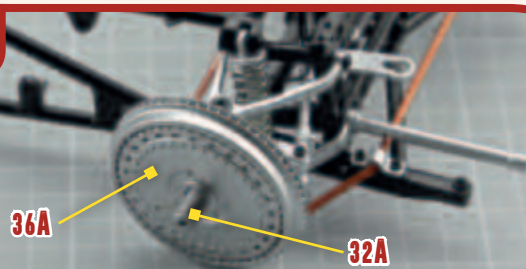
B



C



D



37 PARTS LIST

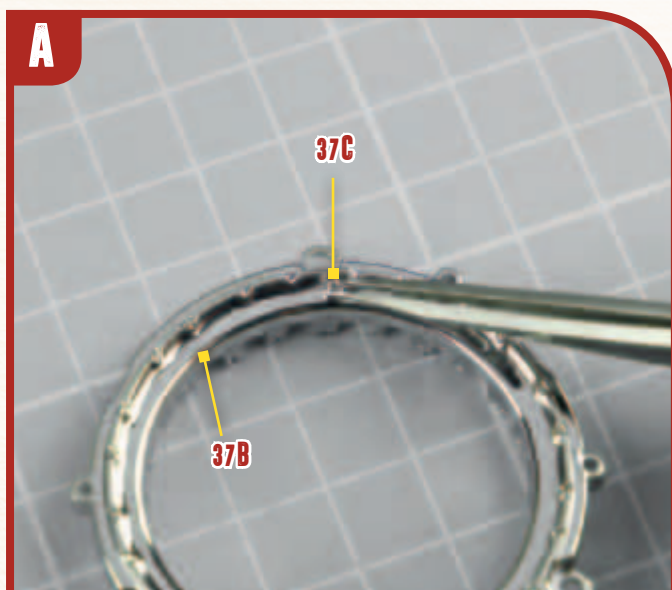
REGULAR ASSEMBLY



37A Outer rim
37B Central ring 1
37C Inflation valve
37D Hub 1

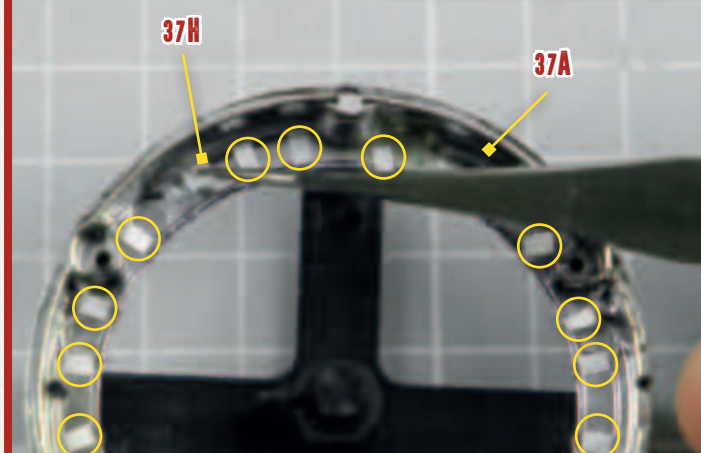
37E Spokes 1
37F Spokes 2
37G Central ring 2
37H Double-sided tape

AP 5 screws (1.7x4mm)
CM 4 screws (1.7x4mm)



C

Apply 24 pieces of double-sided tape 37H to 37A's inner profile and tear off their top sheets.

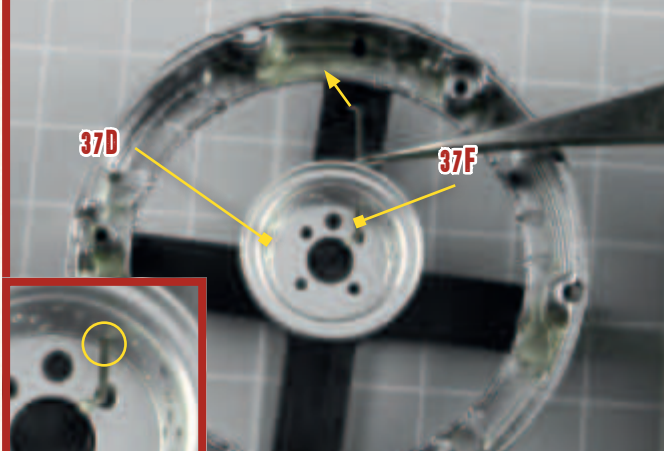


D



E

Insert 1 spoke 37F through a hole in 37D's first level (counting from the bottom).



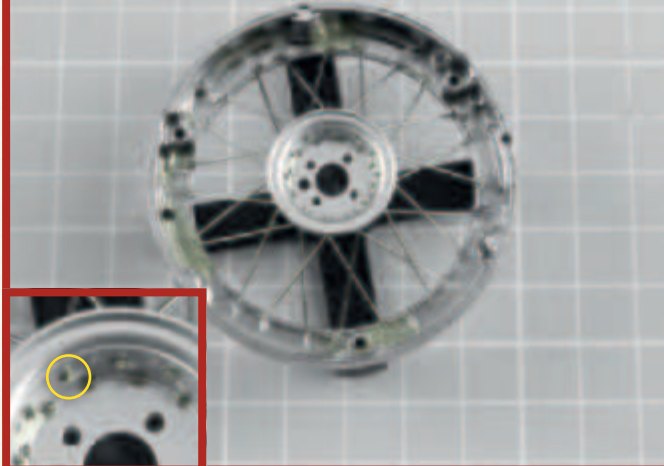
F

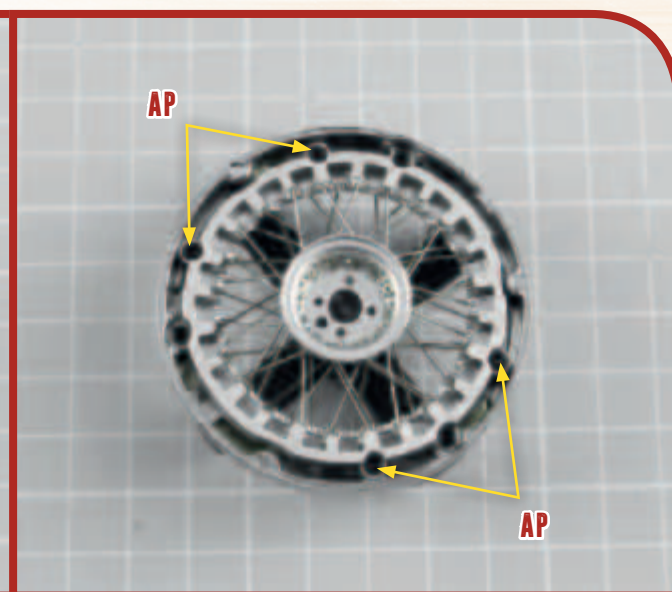
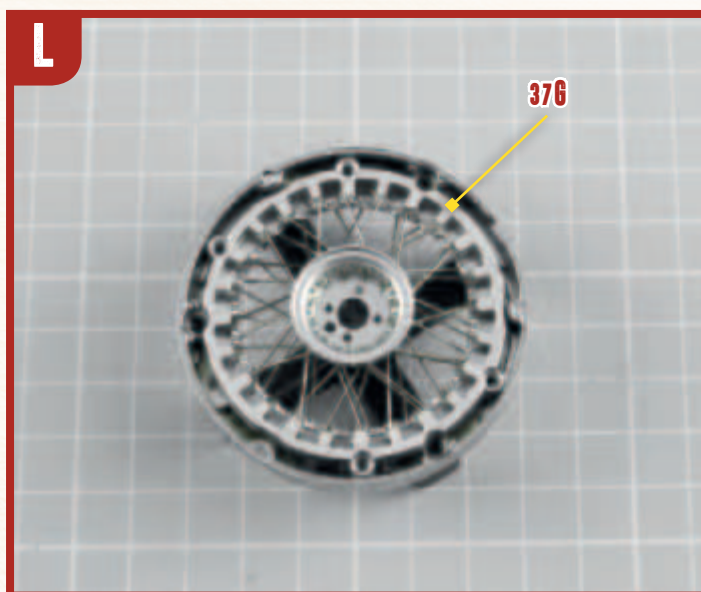
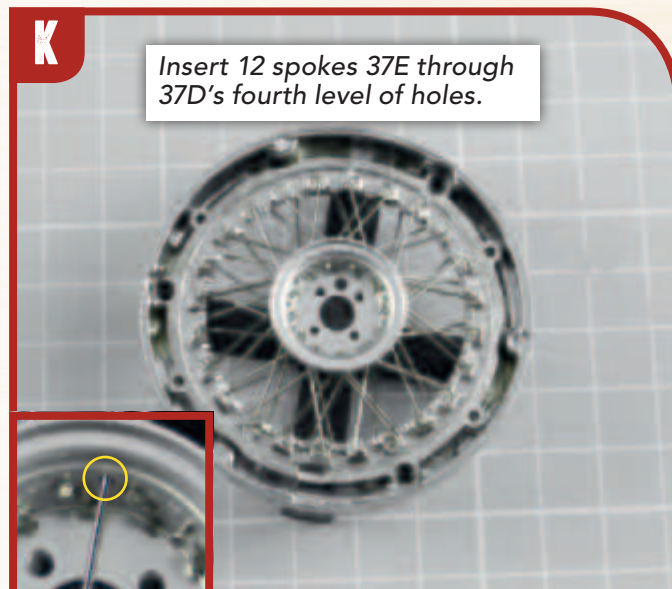
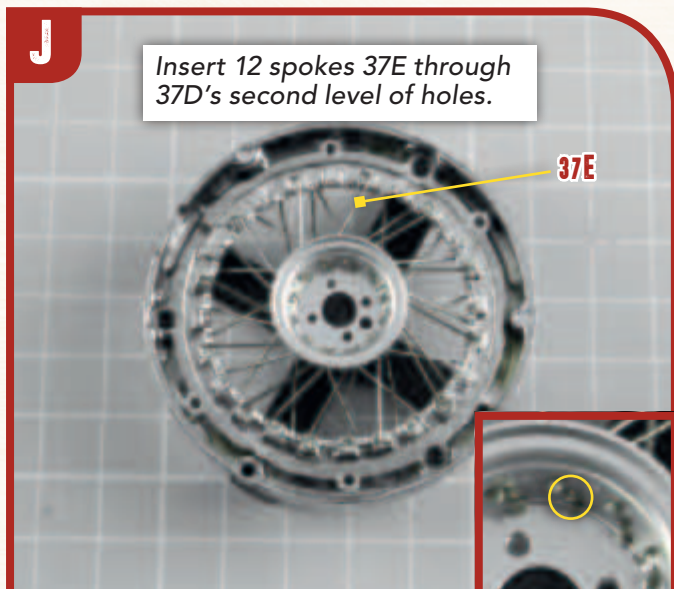
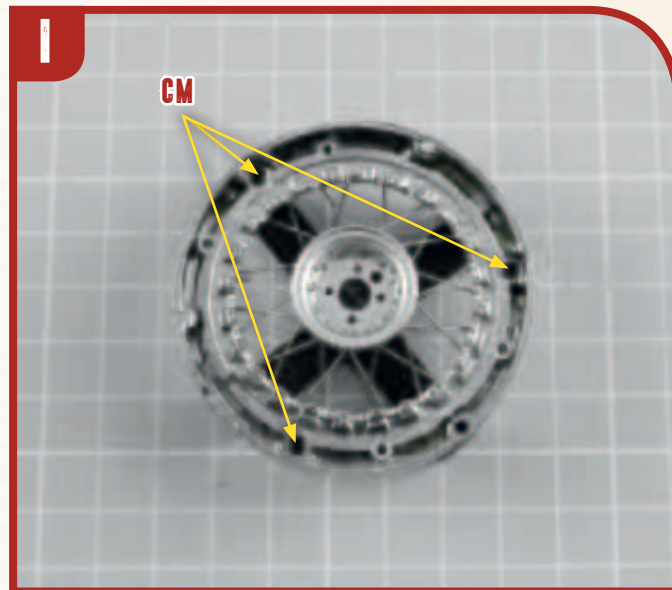
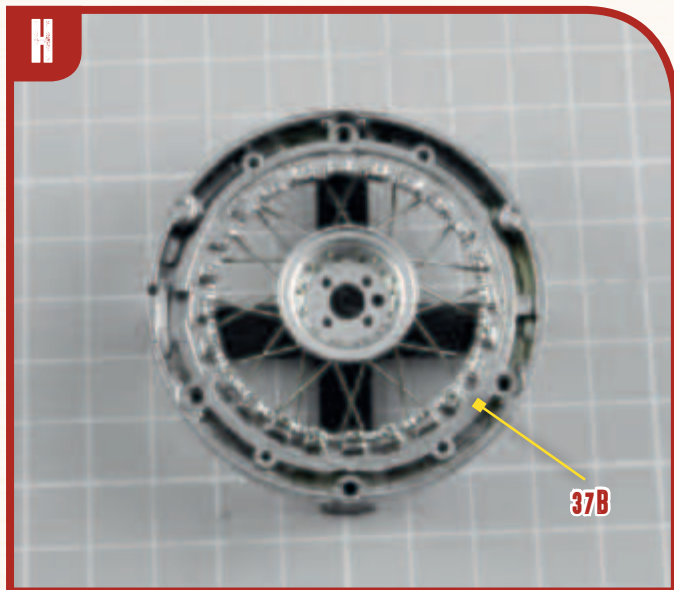
Repeat the process with other 11 spokes 37F.



G

Insert 12 spokes 37F through 37D's third level of holes.





37B PARTS LIST

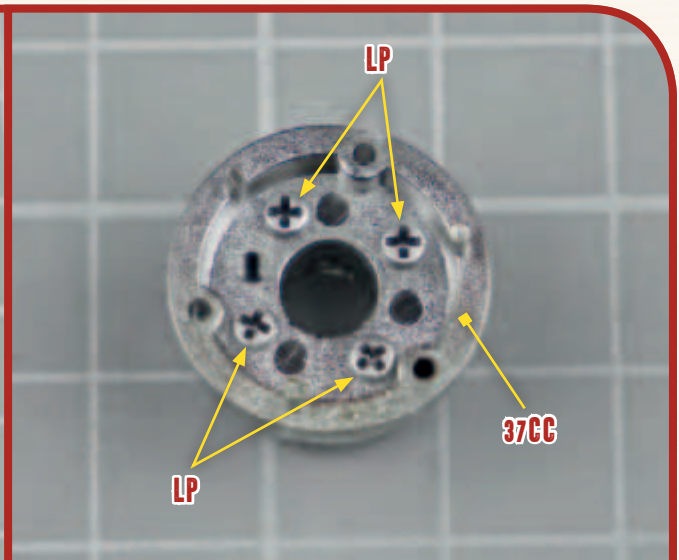
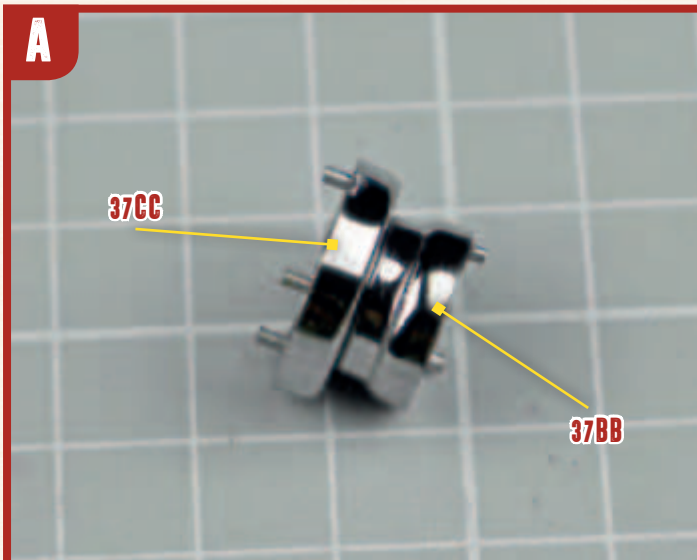
EASY ASSEMBLY

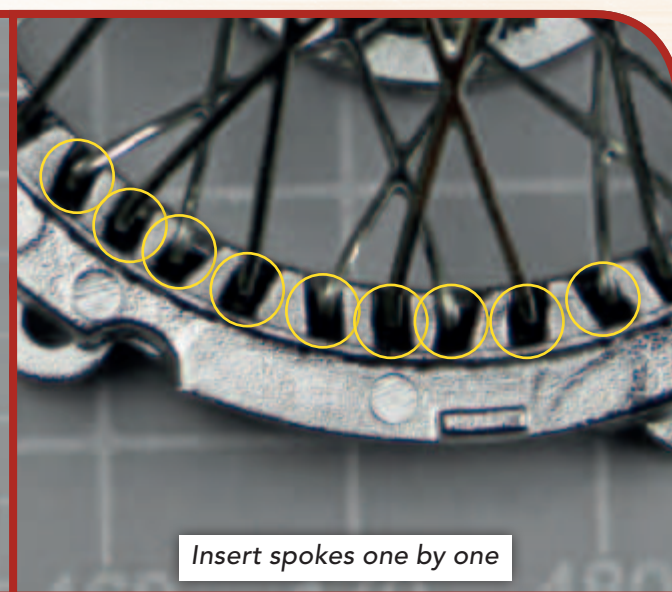
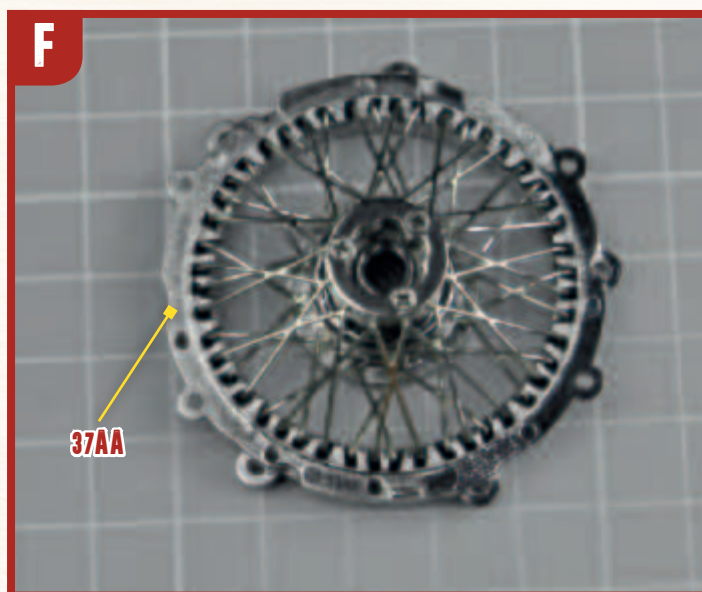
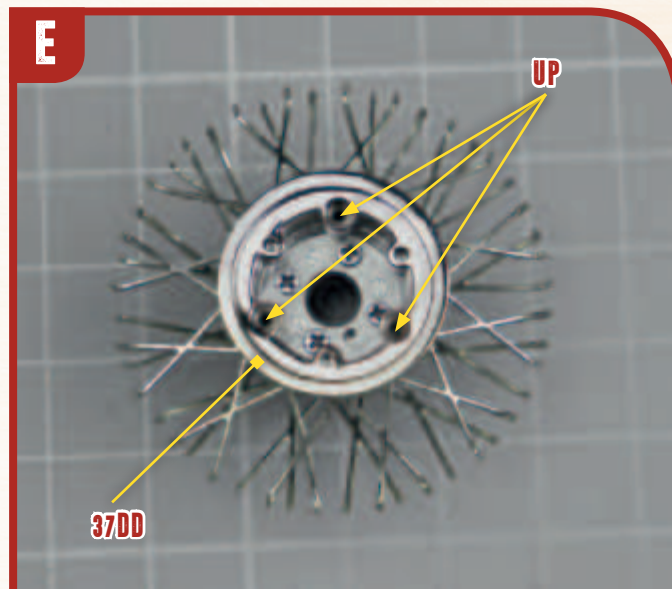
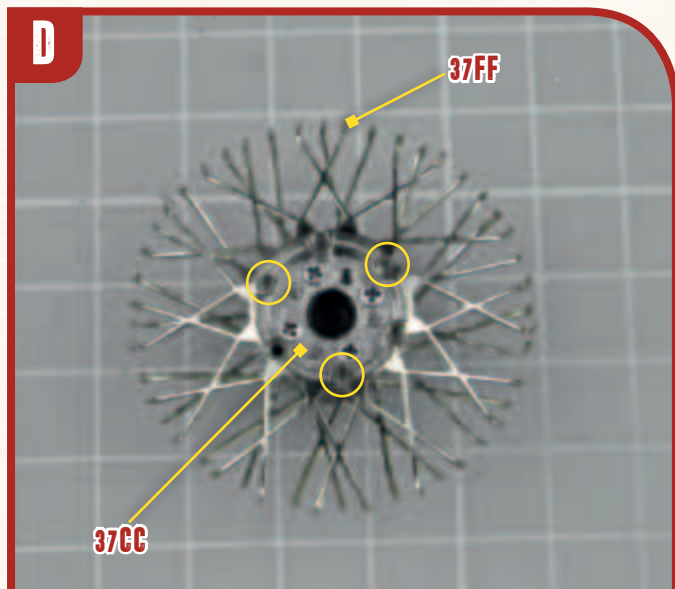
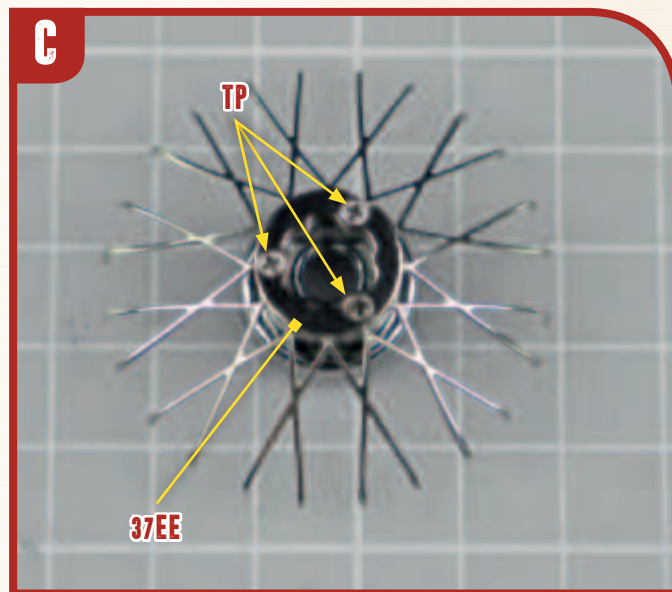
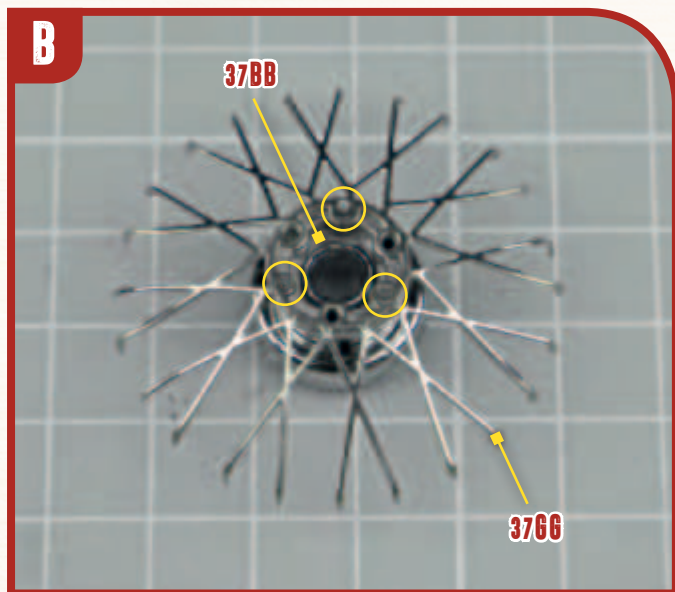


37AA Central ring 1
37BB Hub 1
37CC Hub 2
37DD Hub 3
37EE Hub 4
37FF Spokes 1

37GG Spokes 2
LP 5 screws (1.5x3mm)
TP 4 screws (1.5x5mm)
UP 4 screws (1.7x4mm)

A





38 PARTS LIST

REGULAR ASSEMBLY

- 38A** Inner rim
- 38B** Central ring 3
- 38C** Hub 2
- 38D** Spokes 3
- 38E** Double-sided tape
- CM** 4 screws (1.7x4mm)
- KM** 5 screws (1.5x5mm)

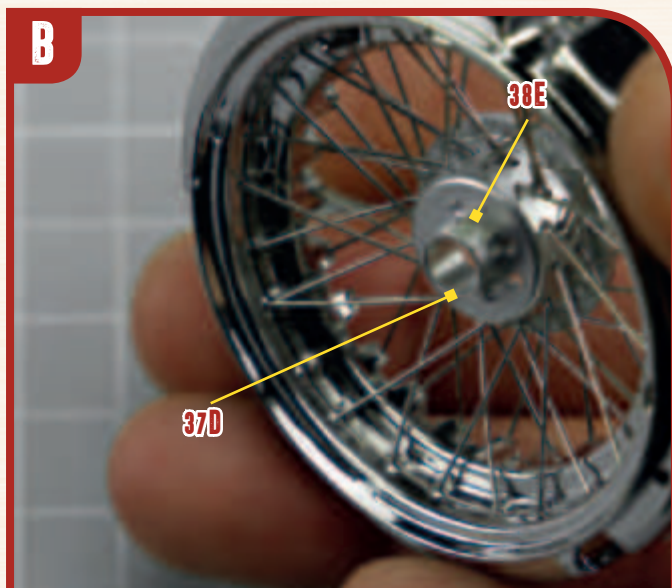


A

Apply 24 pieces of double-sided tape 38E to 37B's inner profile and tear off their top sheets.



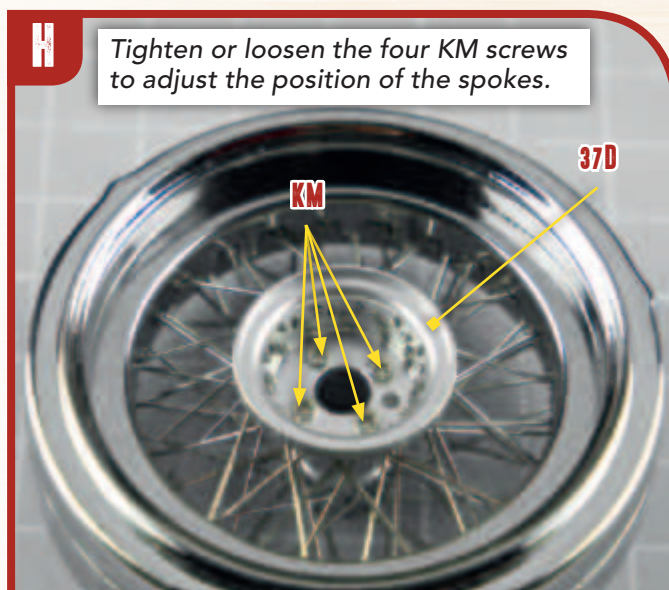
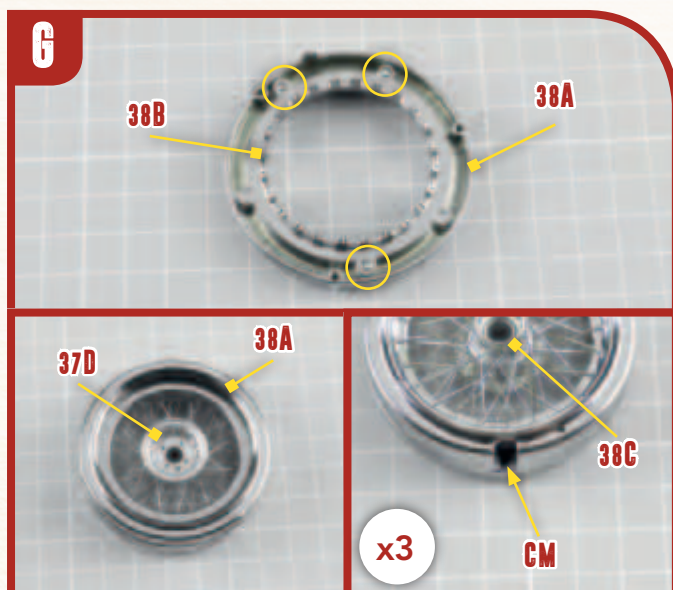
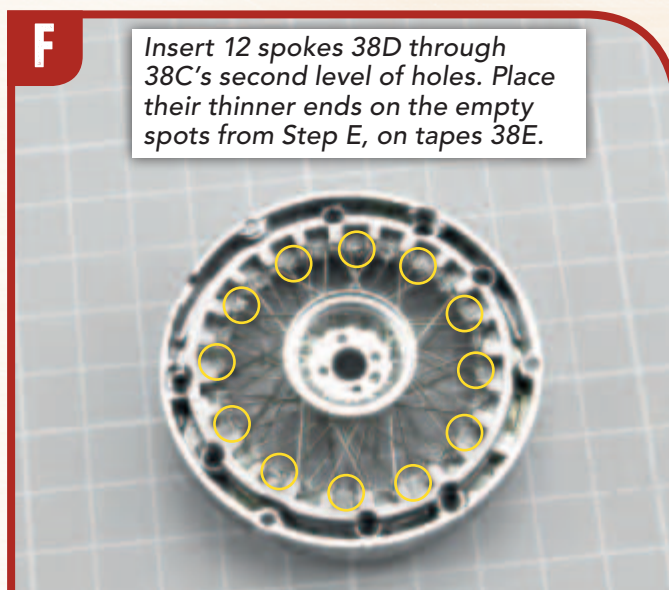
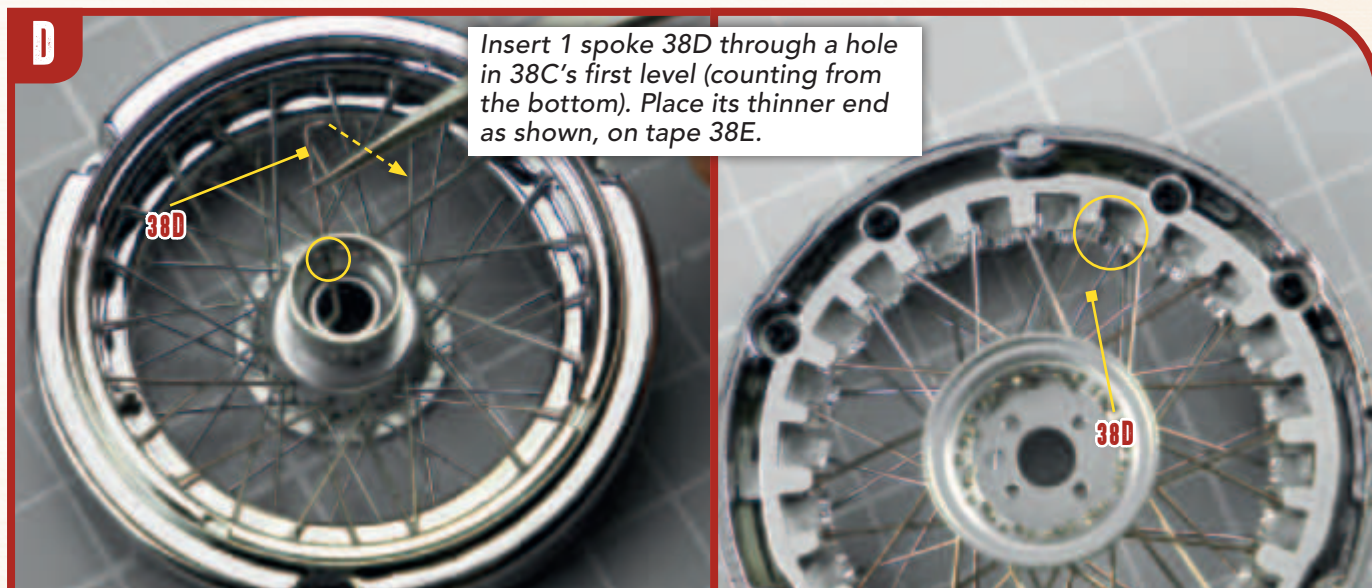
B



C



stepbystep #38



38B PARTS LIST

EASY ASSEMBLY

- 38AA** Outer rim
- 38BB** Inner rim
- 38CC** Central ring 2
- 38DD** Inflation valve

- AP** 5 screws (1.7x4mm)
- CM** 8 screws (1.7x4mm)



38AA



38BB



38CC

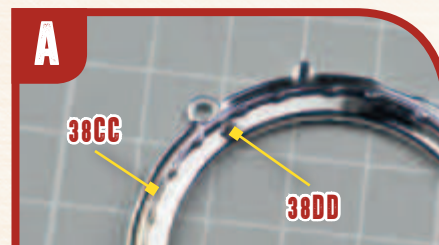
38DD



AP



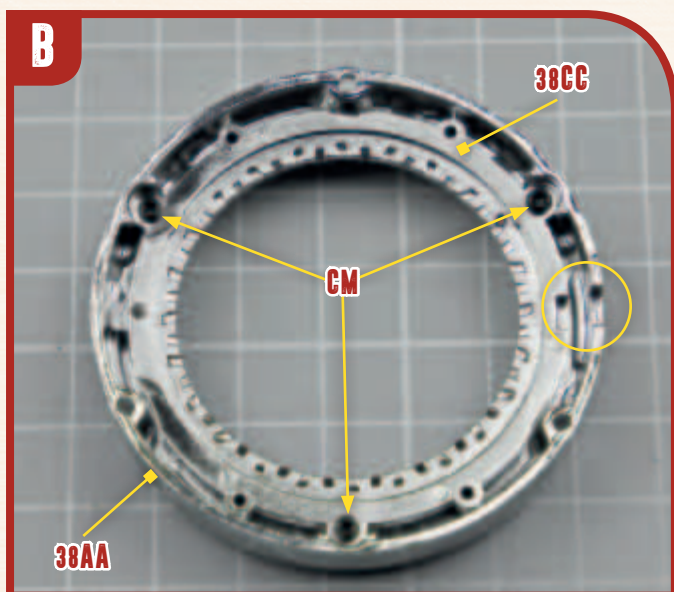
CM



A

38CC

38DD

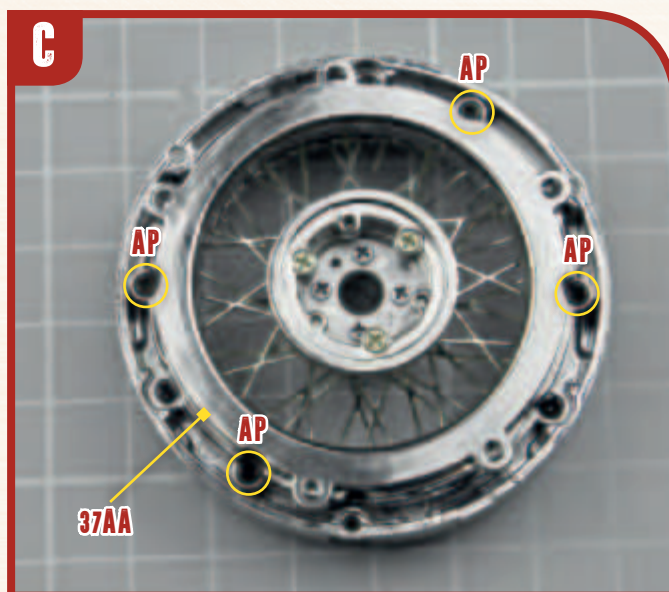


B

38CC

CM

38AA



C

AP

AP

AP

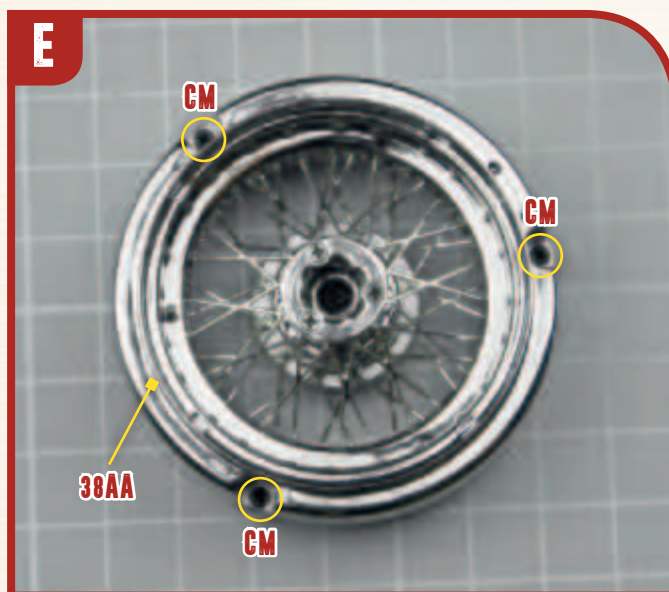
37AA

AP



D

38BB



E

CM

CM

38AA

CM

39 PARTS LIST

REGULAR ASSEMBLY

- 39A** Tyre
- 39B** Hub 3
- 39C** Hubcap
- 39D** Washer ring
- JM** 2 screws (2x5mm)

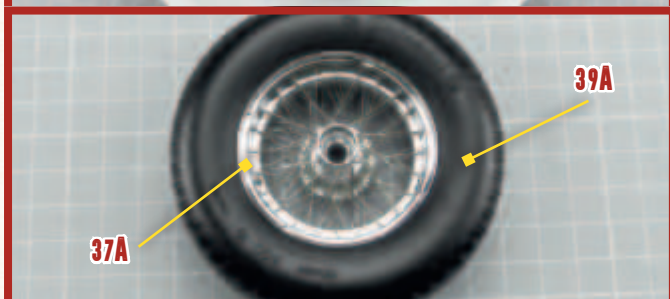


A

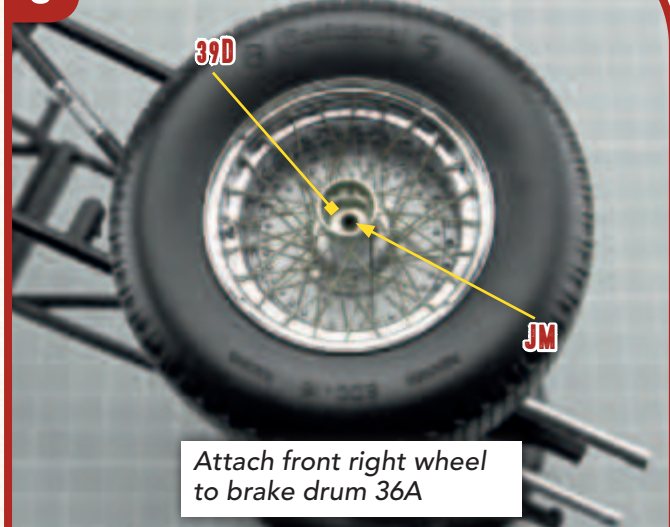
Soften tyre 39A by placing it in a bowl full of hot water.



B



C



Attach front right wheel to brake drum 36A

D

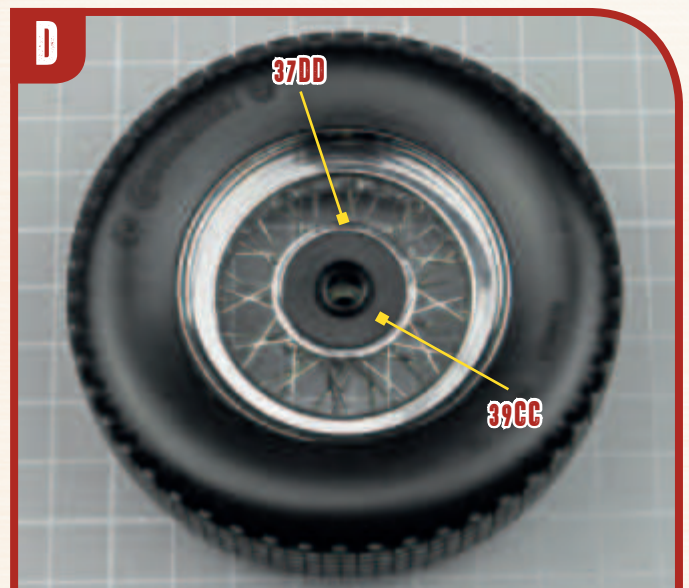
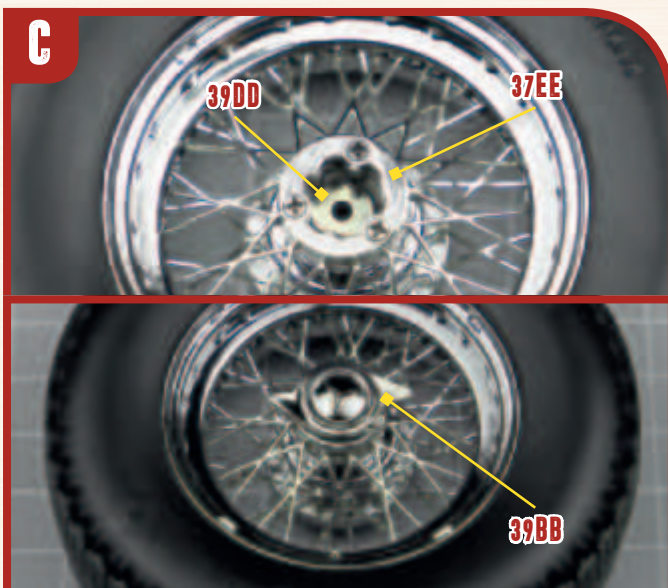


39B PARTS LIST

EASY ASSEMBLY

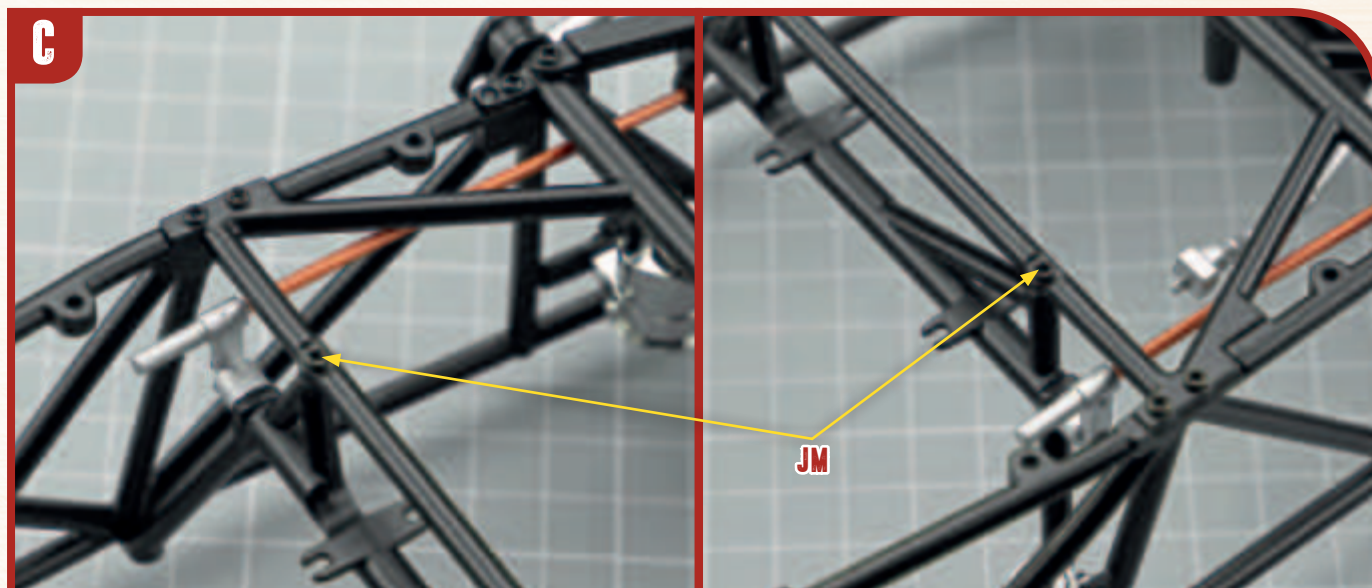
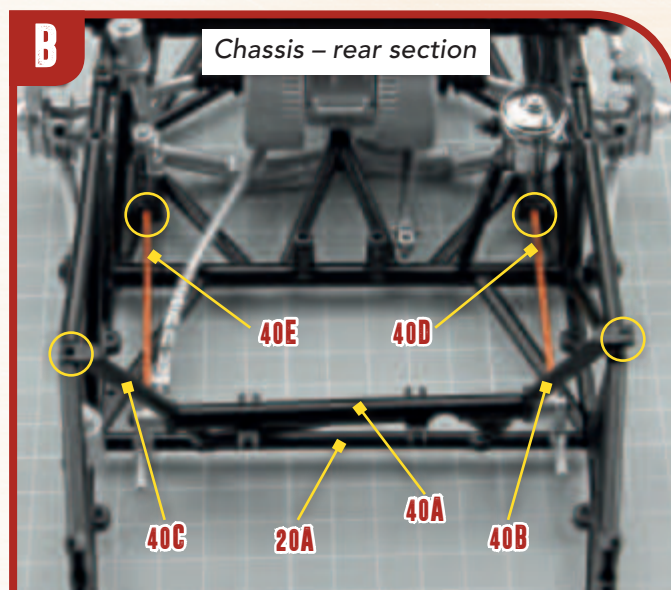
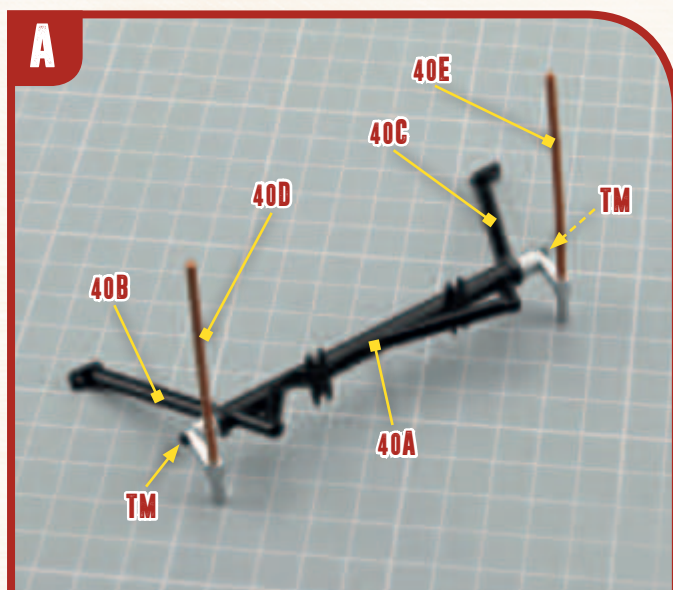
- 39AA** Tyre
- 39BB** Hubcap
- 39CC** Hub 5
- 39DD** Washer ring

JM 2 screws (2x5mm)



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 (2x5mm)
- TM** 3 screws (2x13mm)



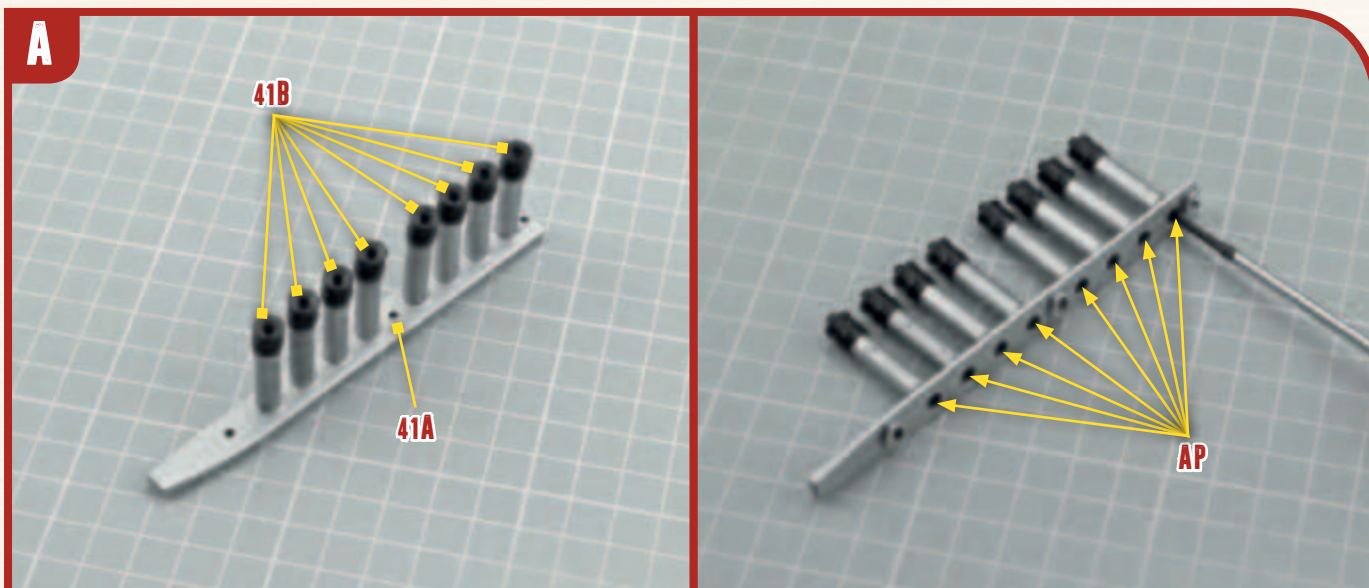
41 PARTS LIST



41A Inleft manifold

41B Pipes (x8)

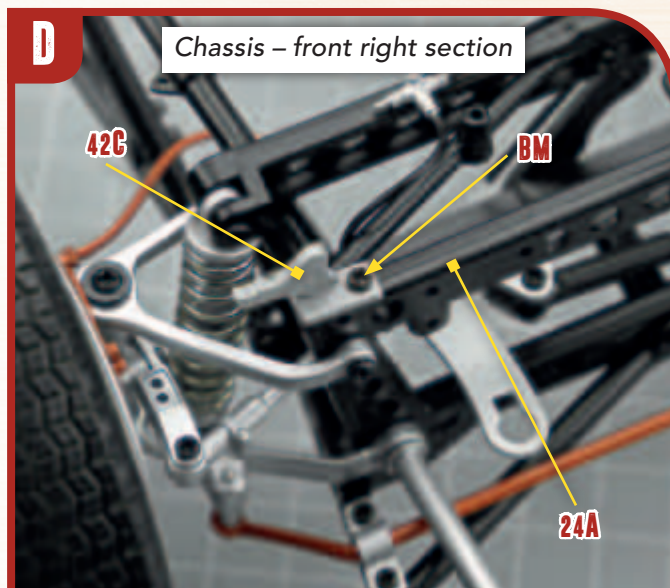
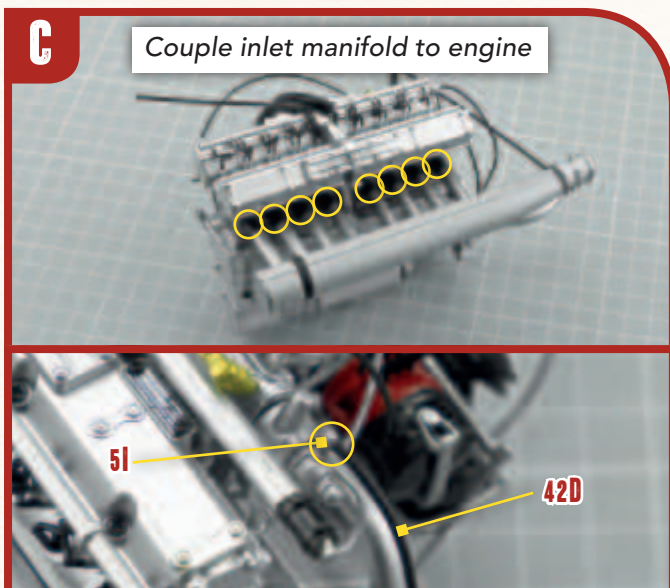
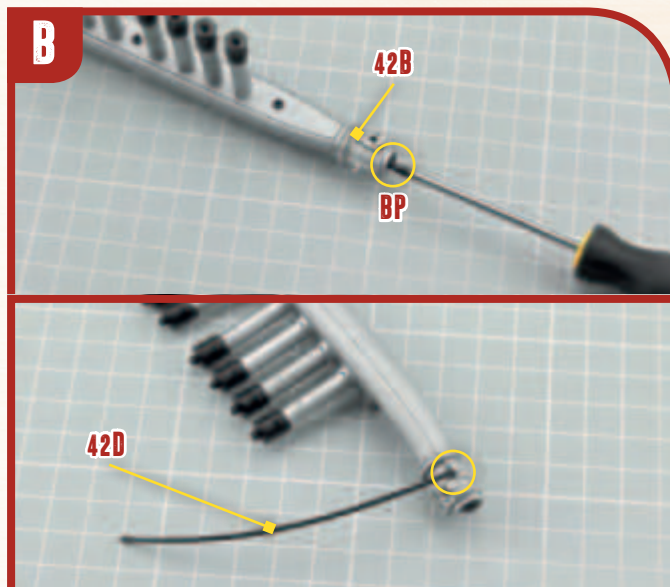
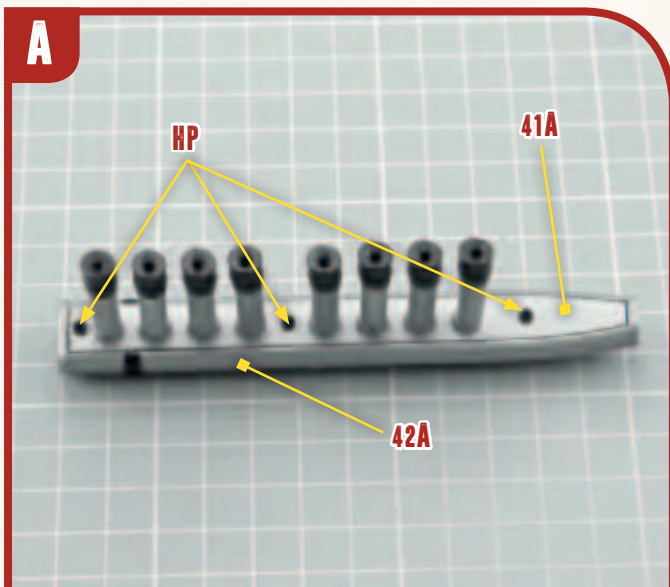
AP 11 screws (1.7x4mm)



42 PARTS LIST

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

BM 2 screws (1.7x3mm)
BP 2 screws (2x5mm)
HP 4 screws (1.7x5mm)



43 PARTS LIST



43A Exhaust manifold

A

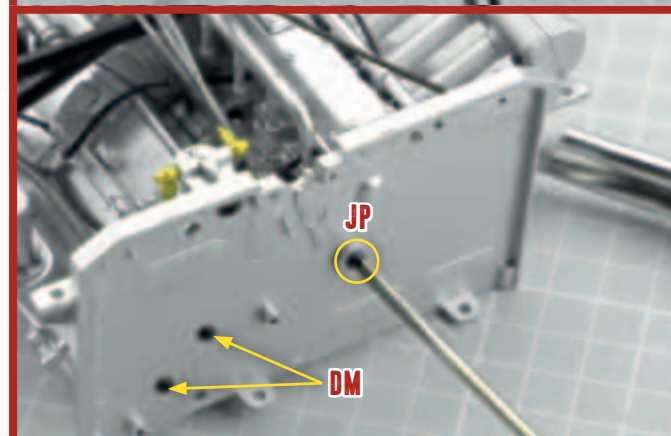
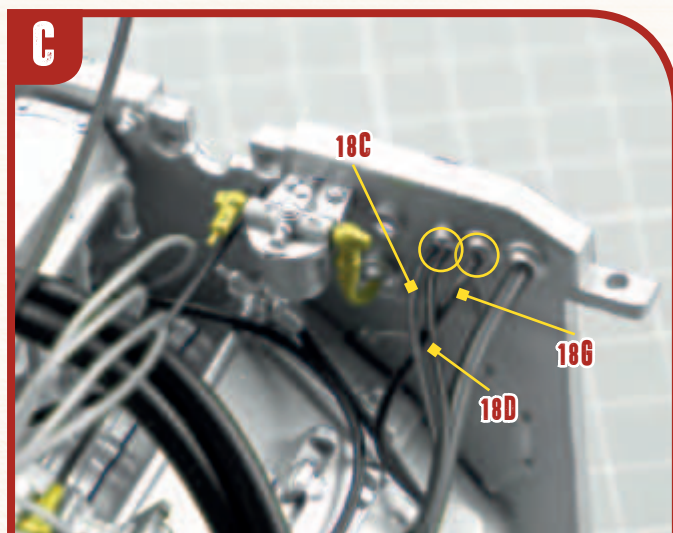
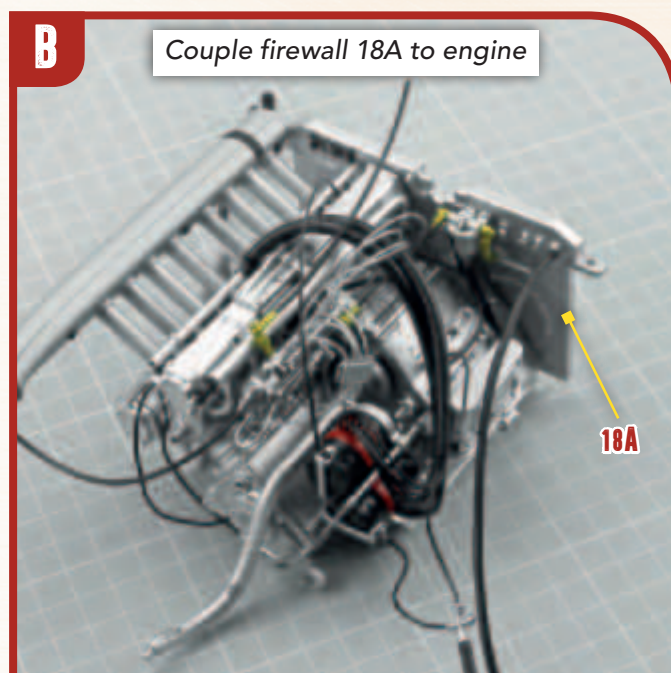
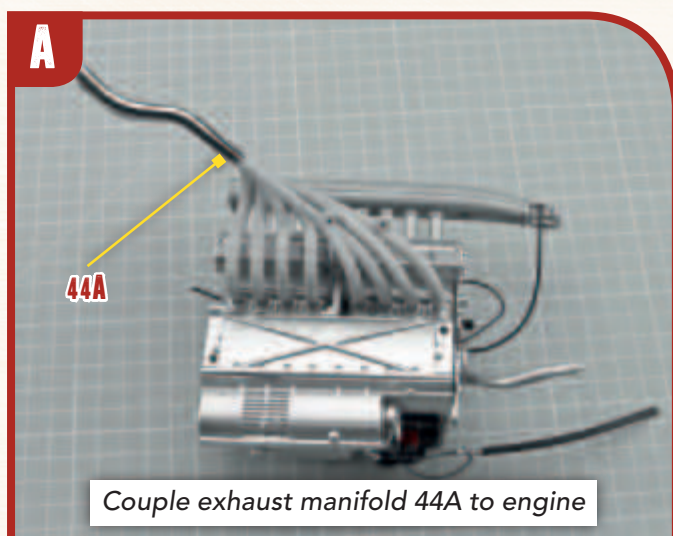
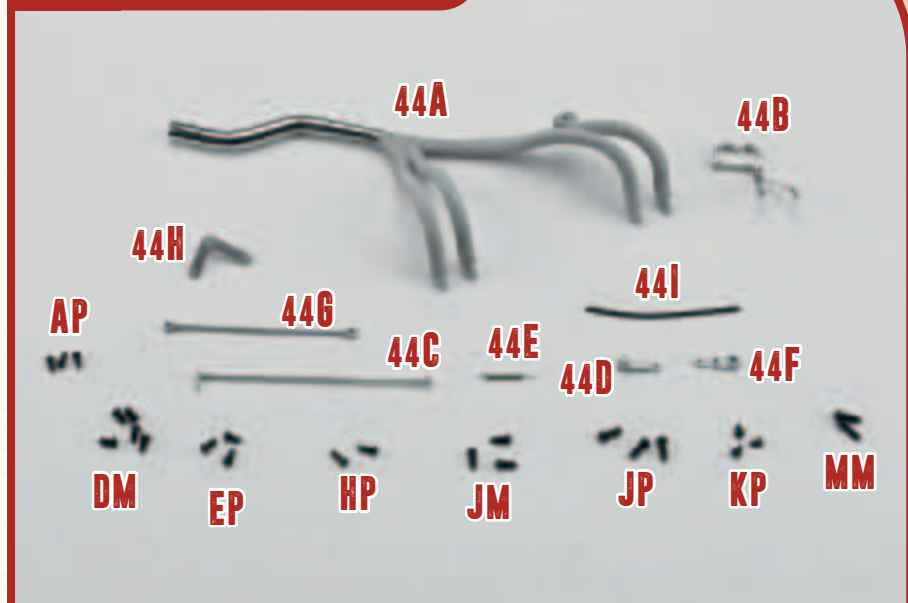
Couple exhaust manifold 43A to engine

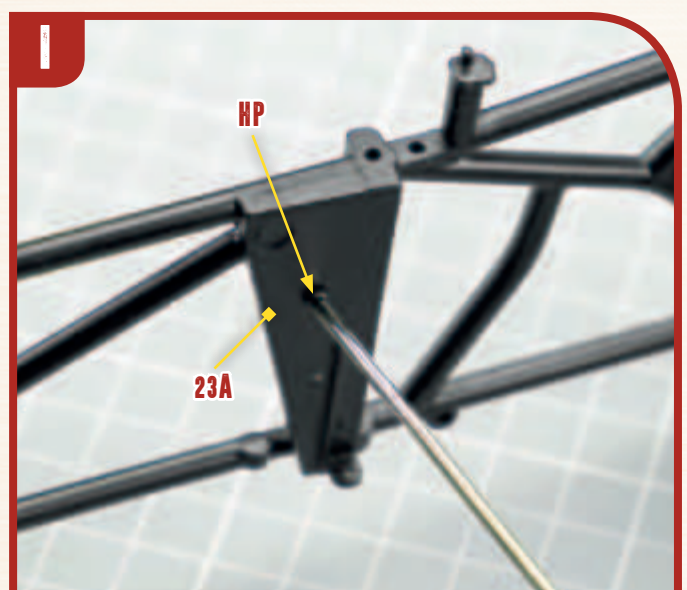
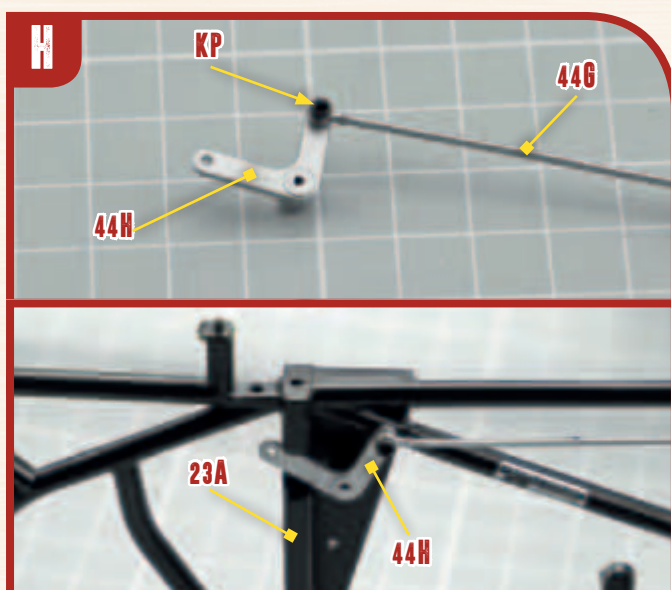
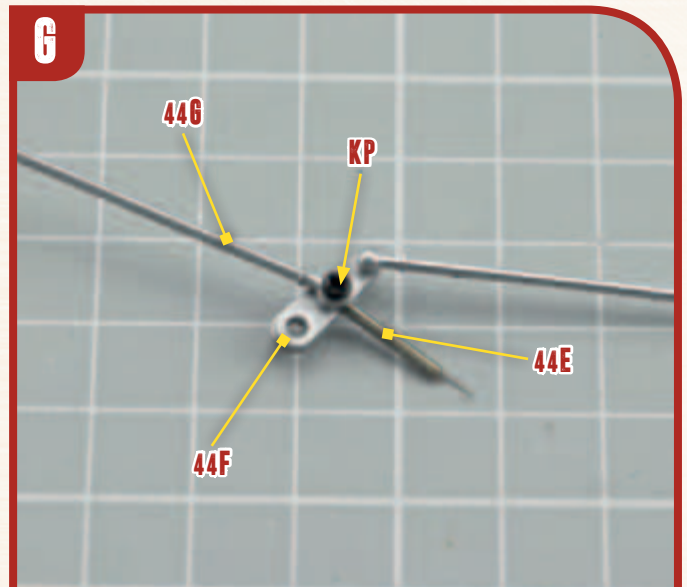
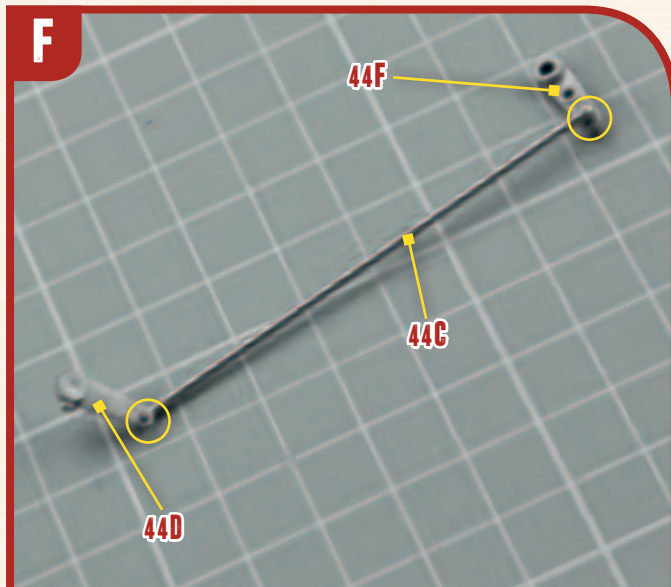
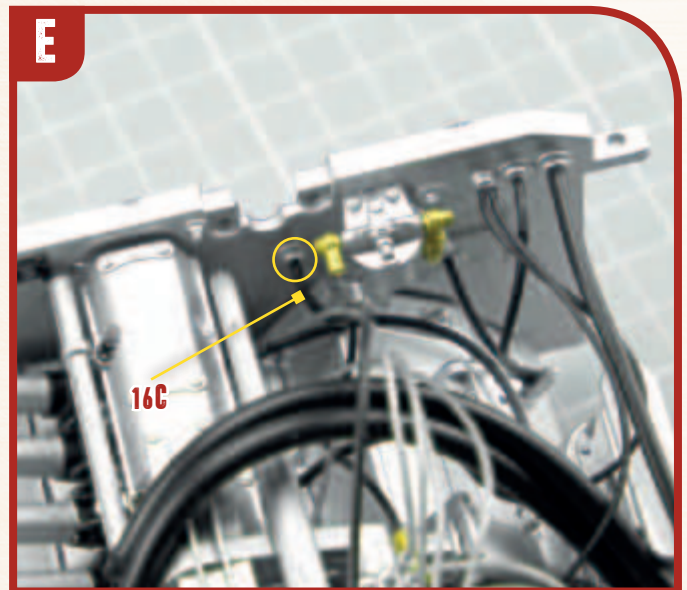
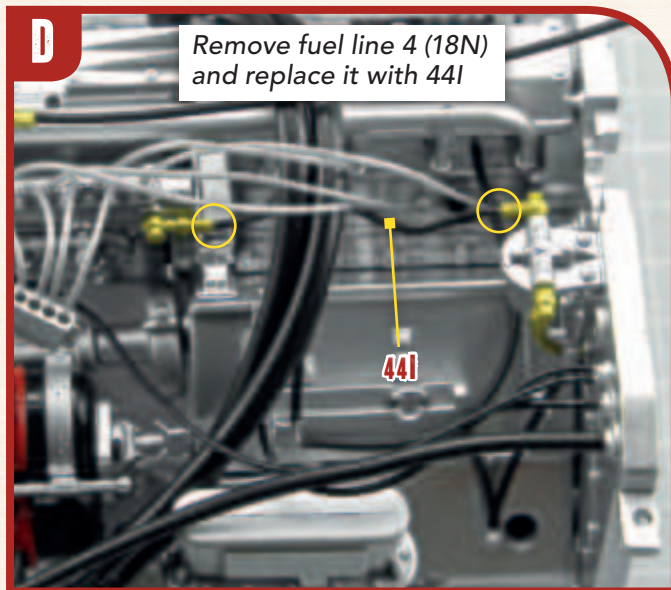
43A

44 PARTS LIST

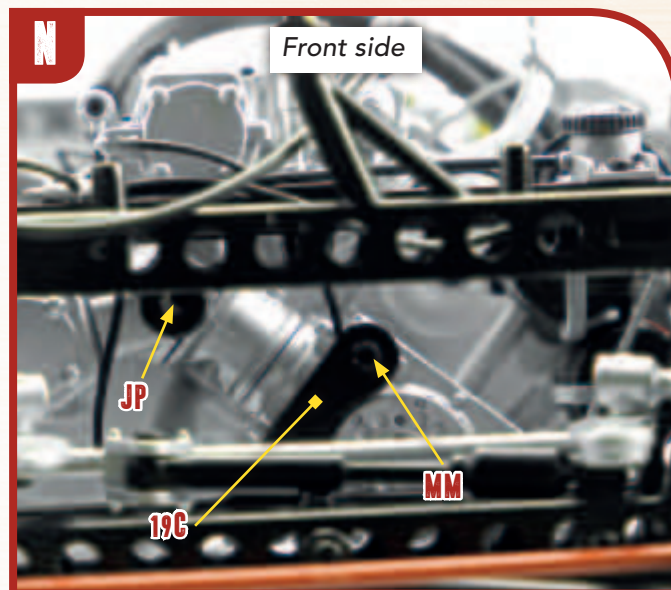
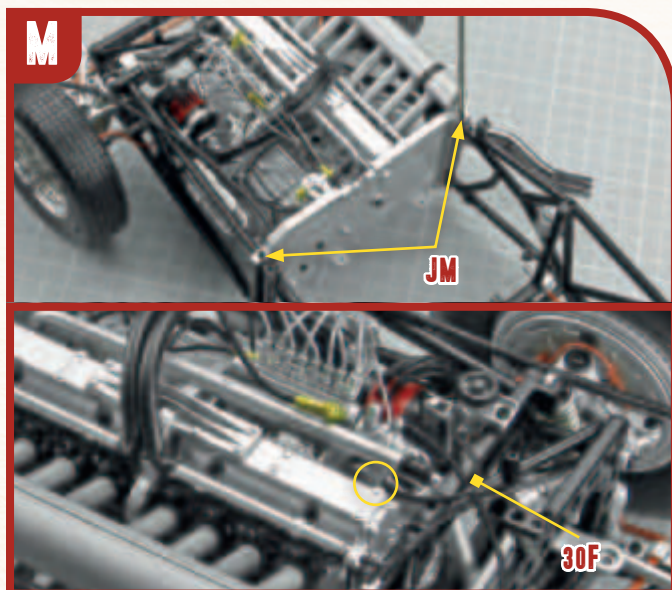
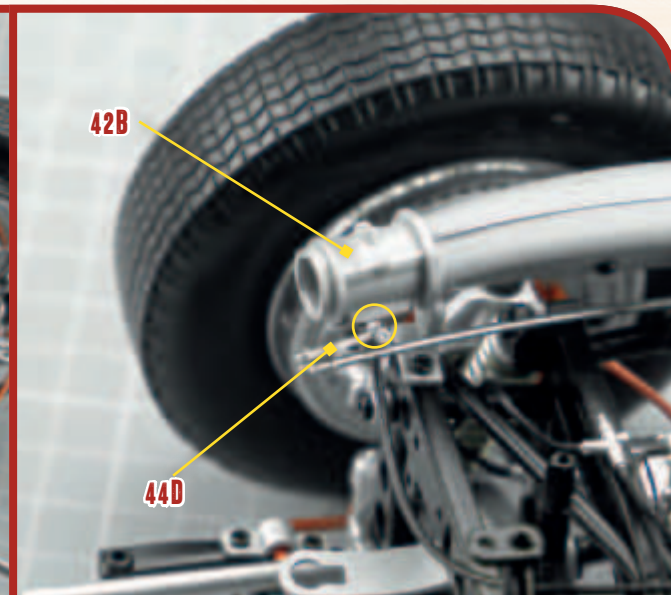
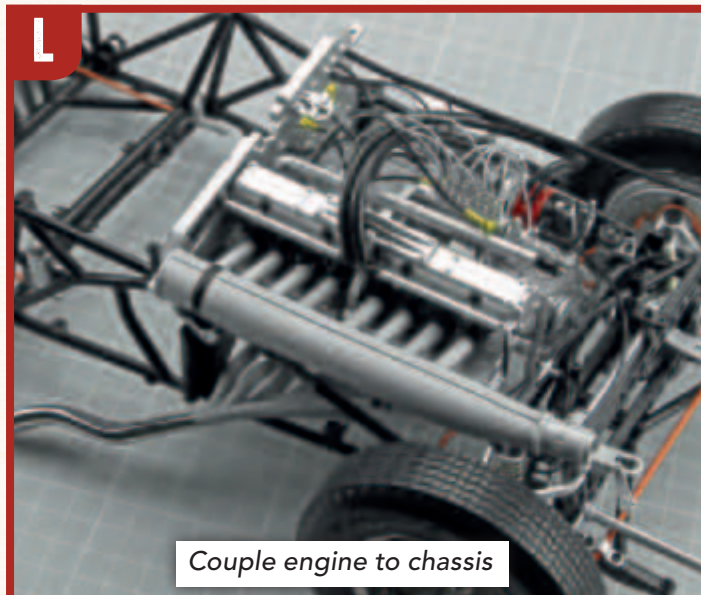
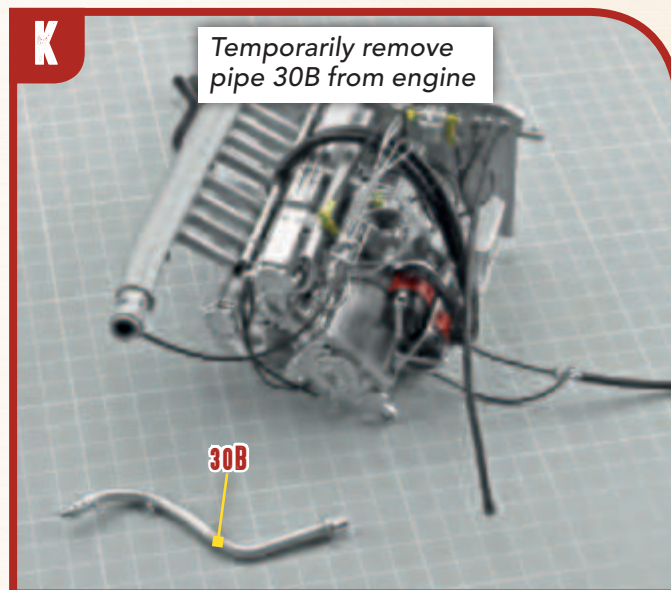
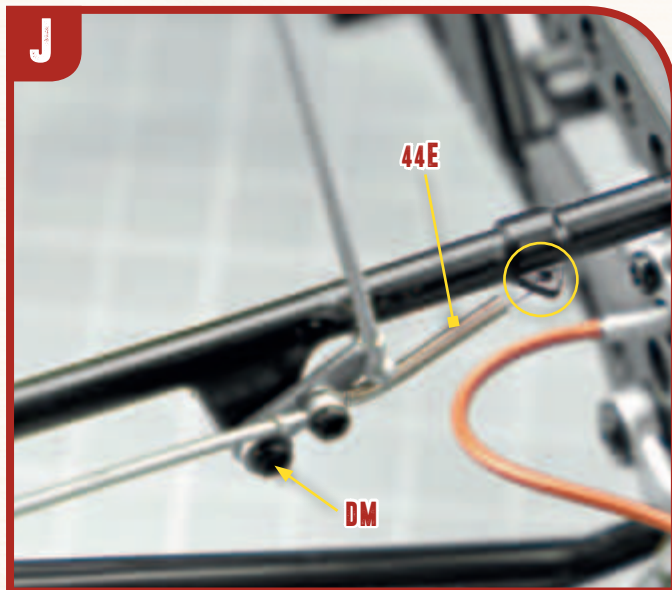
- 44A Exhaust manifold
- 44B Flange
- 44C Accelerator rod 1
- 44D Lever 1
- 44E Spring
- 44F Lever 2
- 44G Accelerator rod 2
- 44H Lever 3
- 44I Fuel line 4 (replacement)

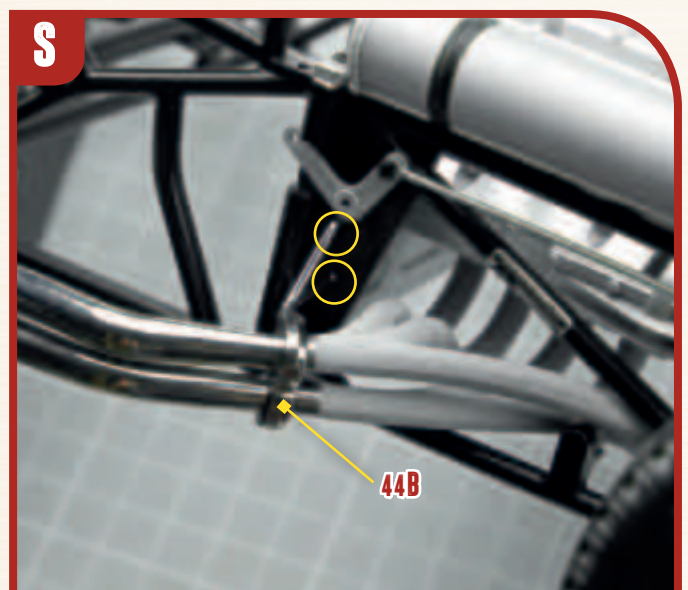
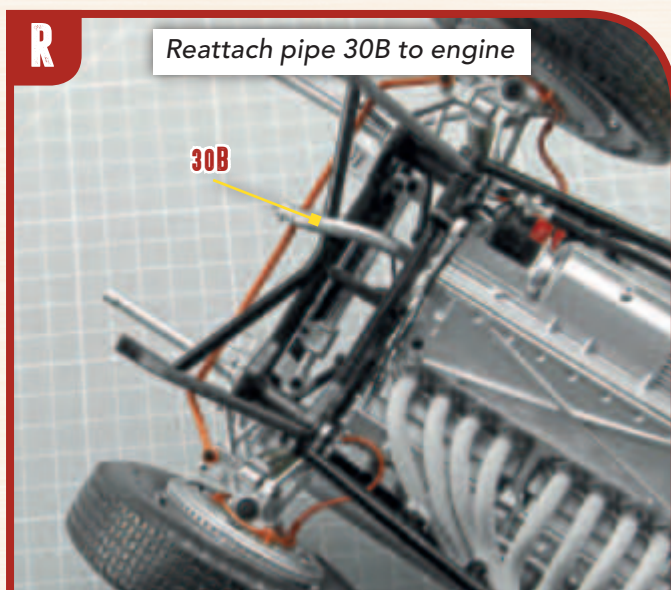
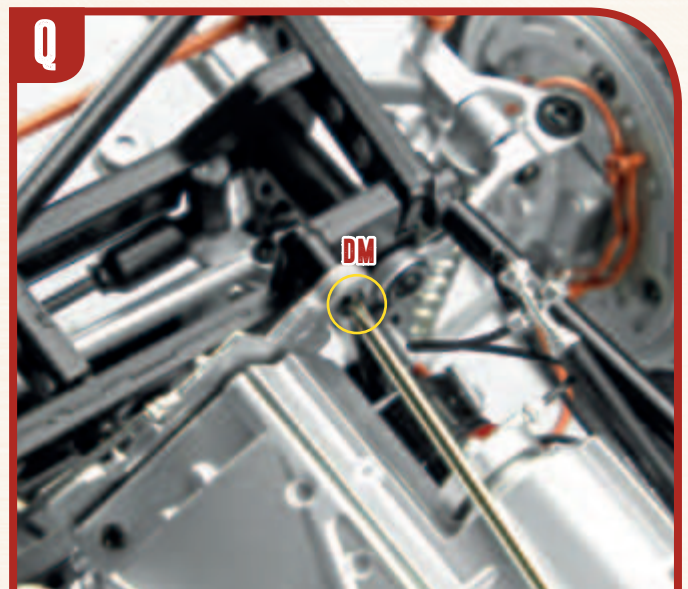
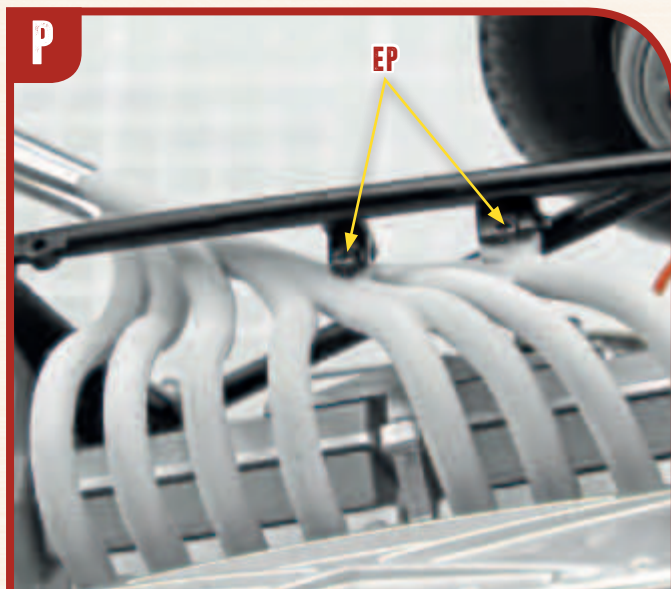
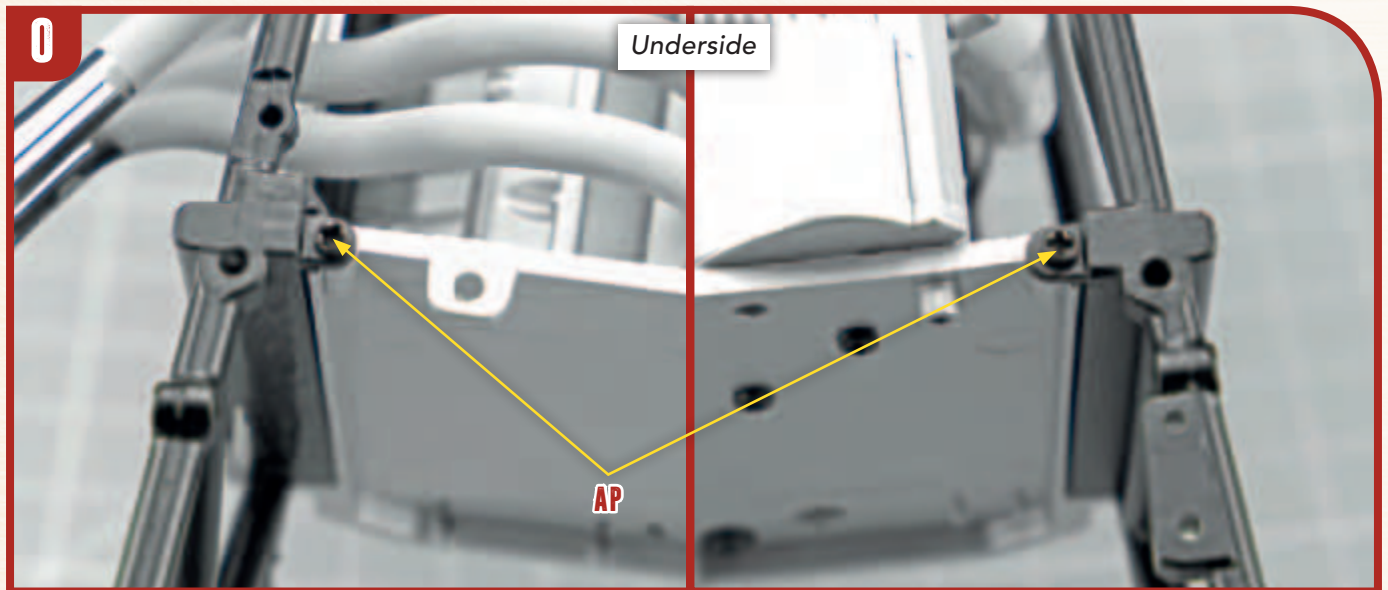
- AP 3 screws (1.7x4mm)
- EP 3 screws (2x4mm)
- HP 2 screws (1.7x5mm)
- JP 3 screws (2.3x6mm)
- KP 3 screws (1.7x3mm)
- DM 5 screws (2x4mm)
- JM 3 screws (2x5mm)
- MM 2 screws (2x7mm)





stepbystep #44





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 (1.7x4mm)
- BM 3 screws (1.7x3mm)

A

45A

45F

AP

B

45D

45C

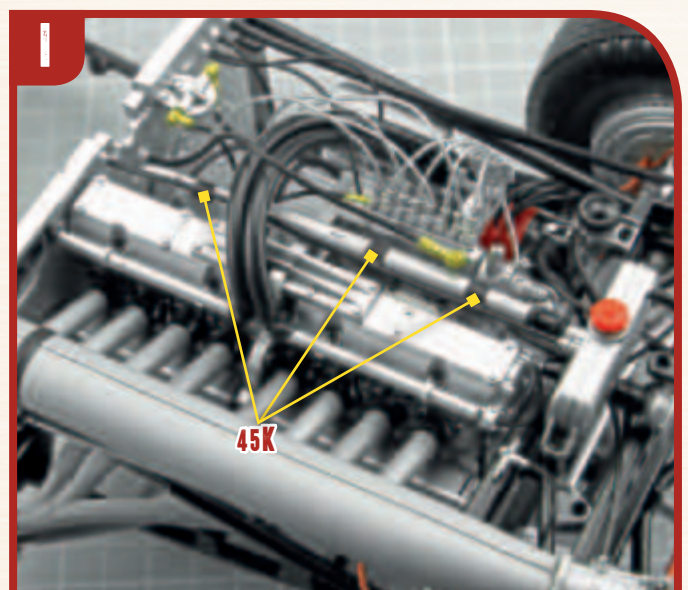
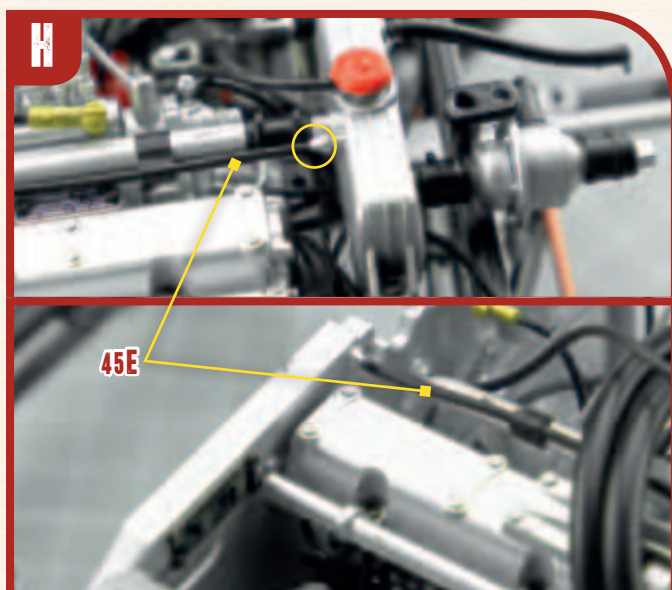
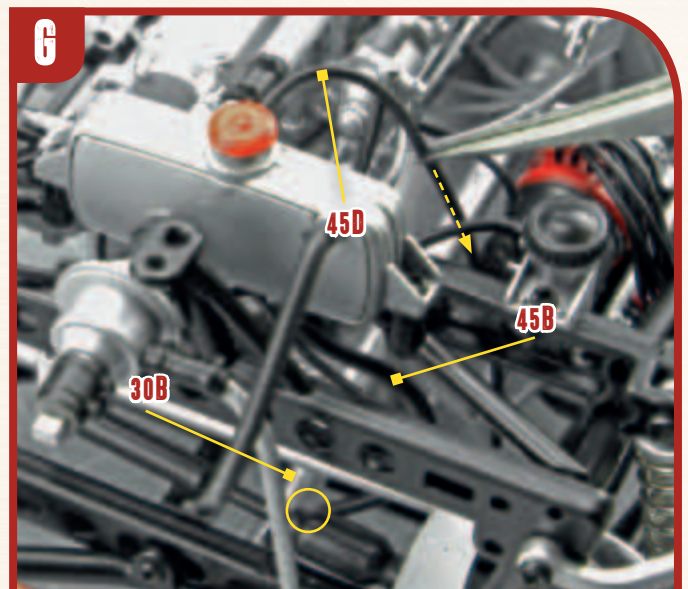
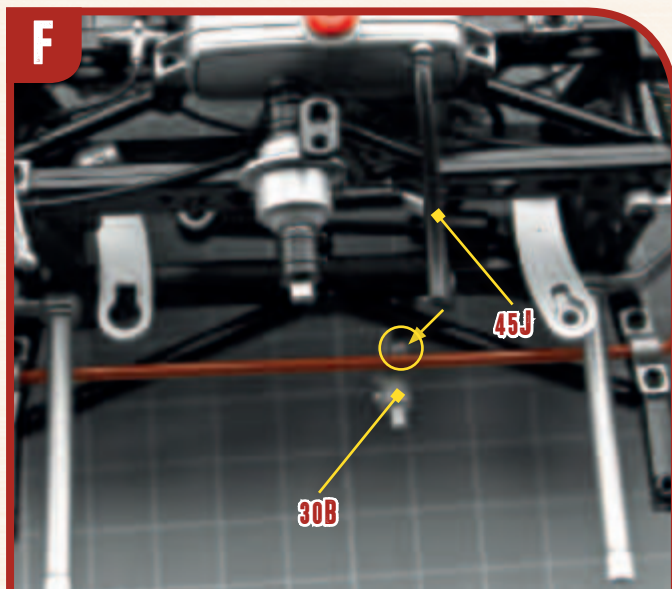
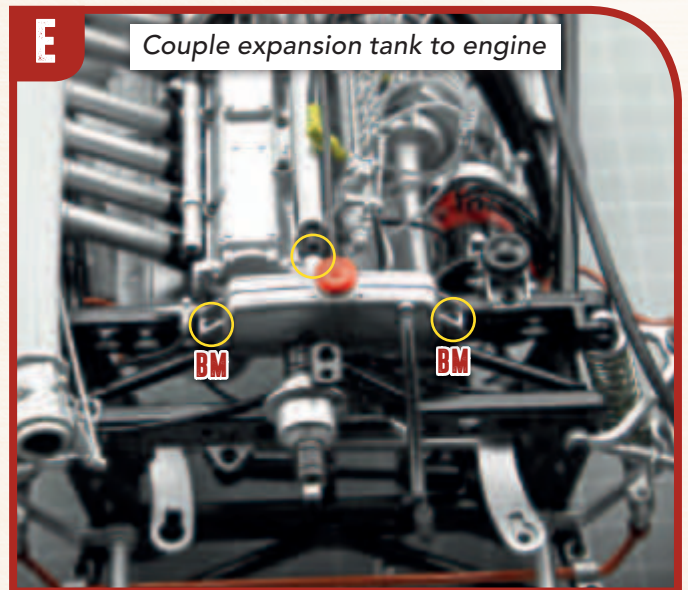
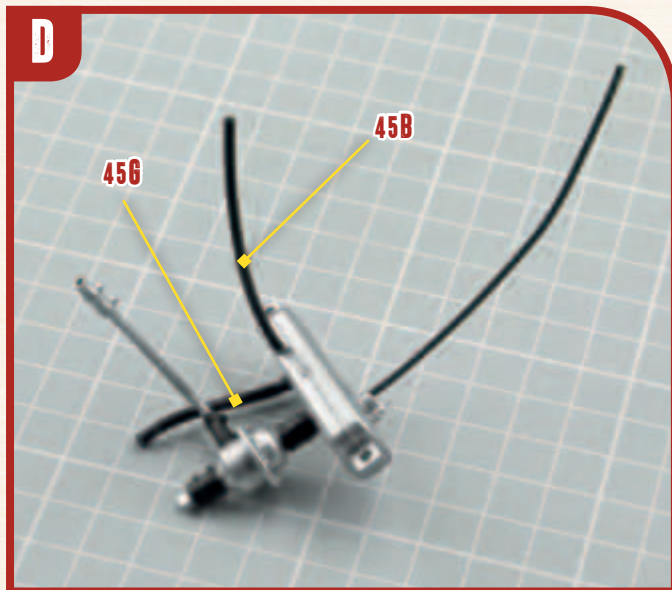
C

45I

45H

45J

AP

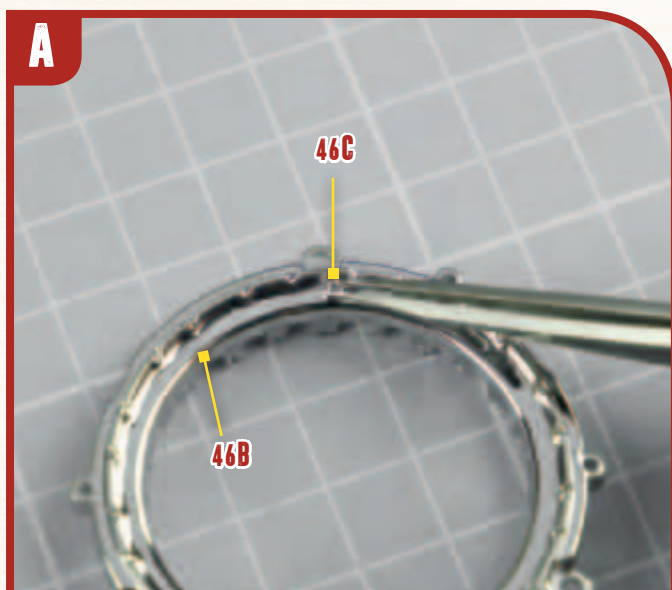


46 PARTS LIST

REGULAR ASSEMBLY



- | | | |
|----------------------------|------------------------------|------------------------------|
| 46A Outer rim | 46E Spokes 1 | AP 5 screws (1.7x4mm) |
| 46B Central ring 1 | 46F Spokes 2 | CM 4 screws (1.7x4mm) |
| 46C Inflation valve | 46G Central ring 2 | |
| 46D Hub 1 | 46H Double-sided tape | |



C

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



D



E

Insert 1 spoke 46F through a hole in 46D's first level (counting from the bottom).



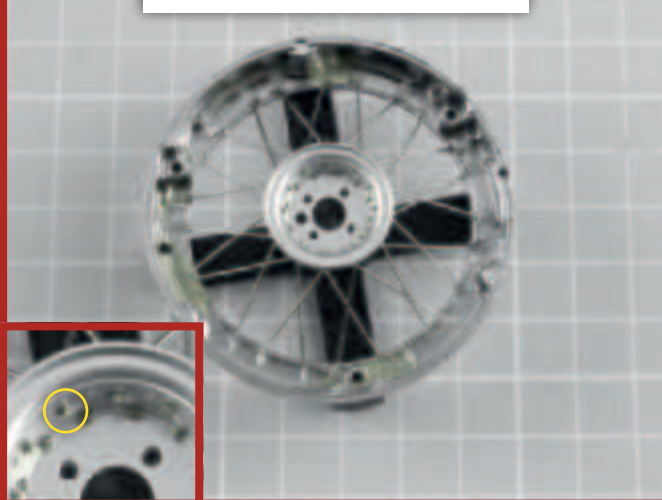
F

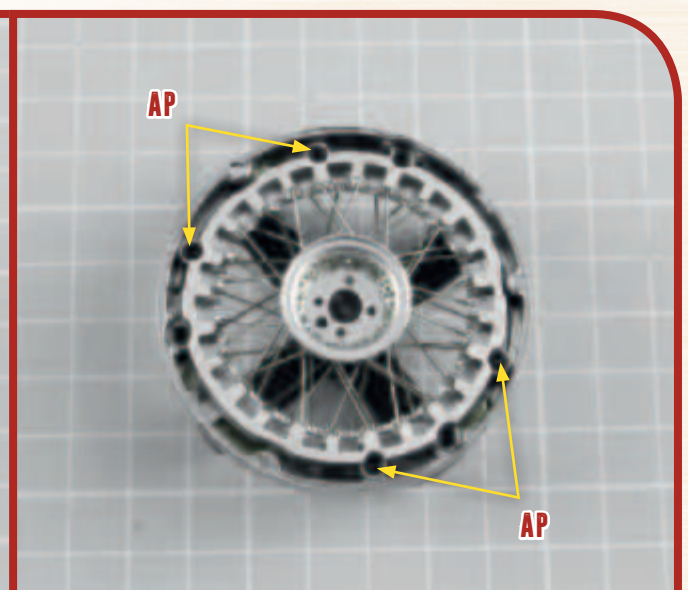
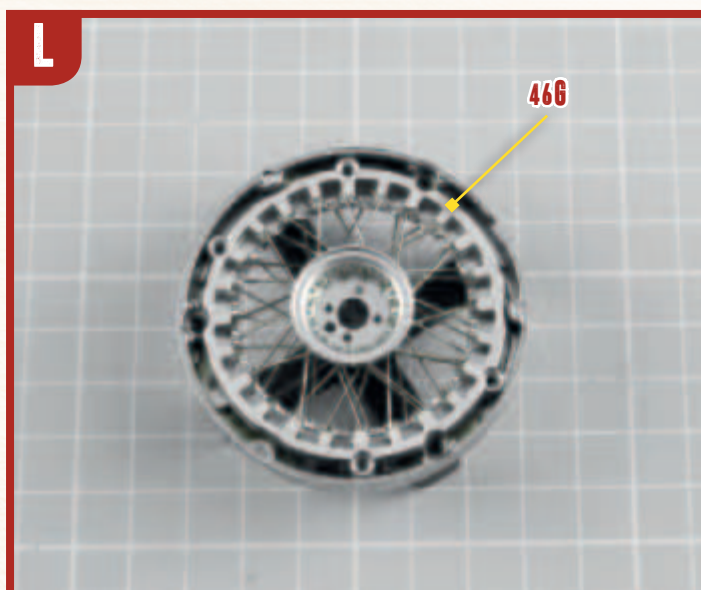
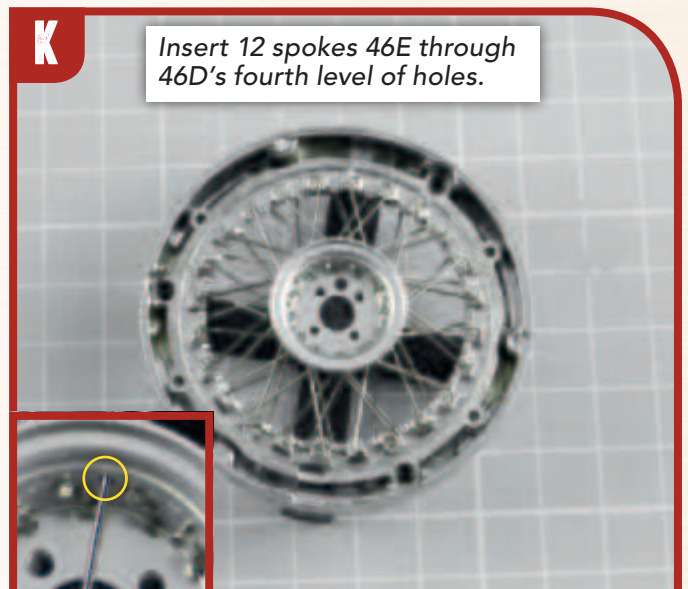
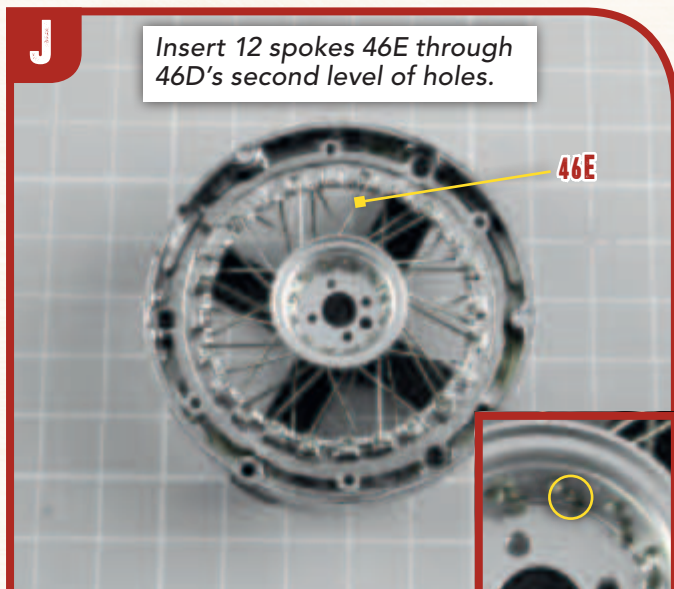
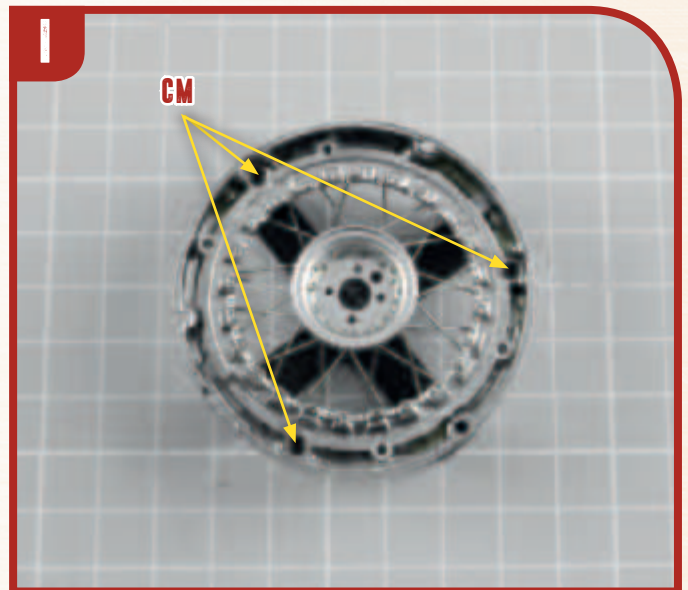
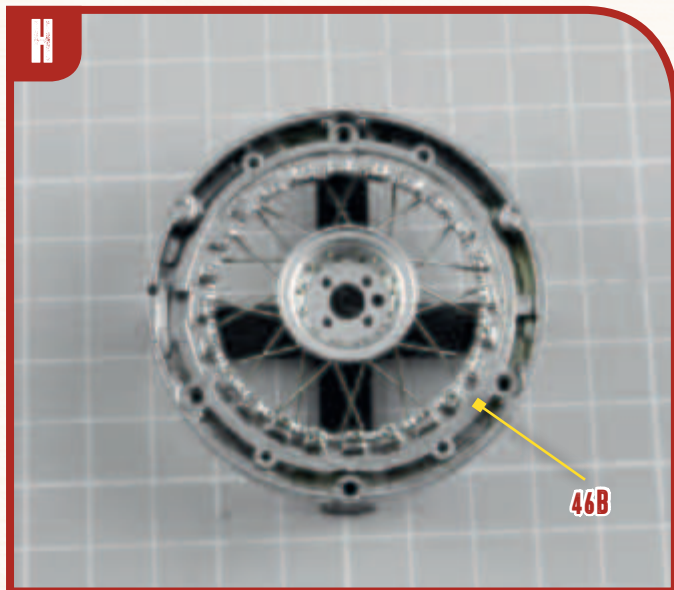
Repeat the process with other 11 spokes 46F.



G

Insert 12 spokes 46F through 46D's third level of holes.





46B PARTS LIST

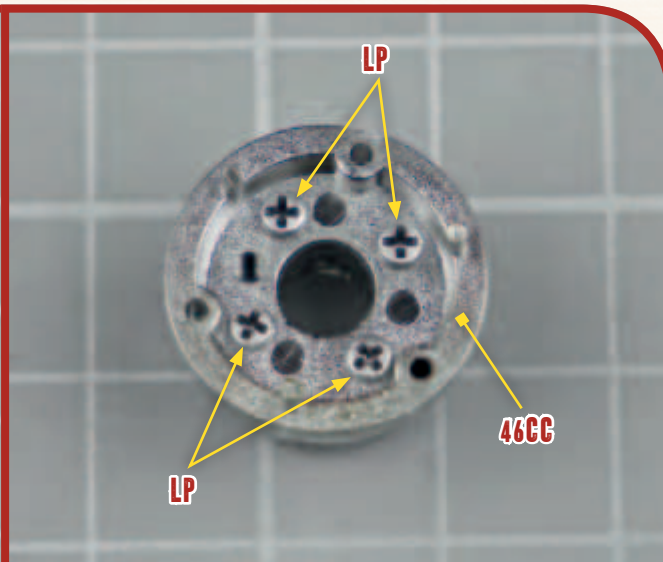
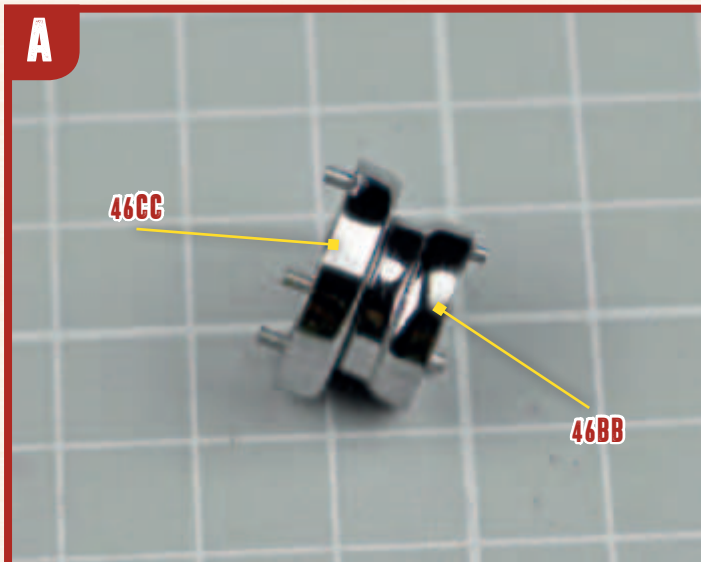
EASY ASSEMBLY

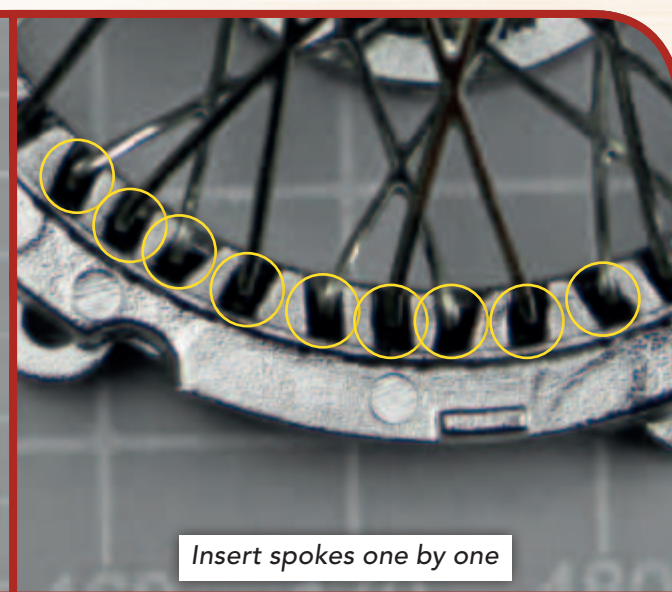
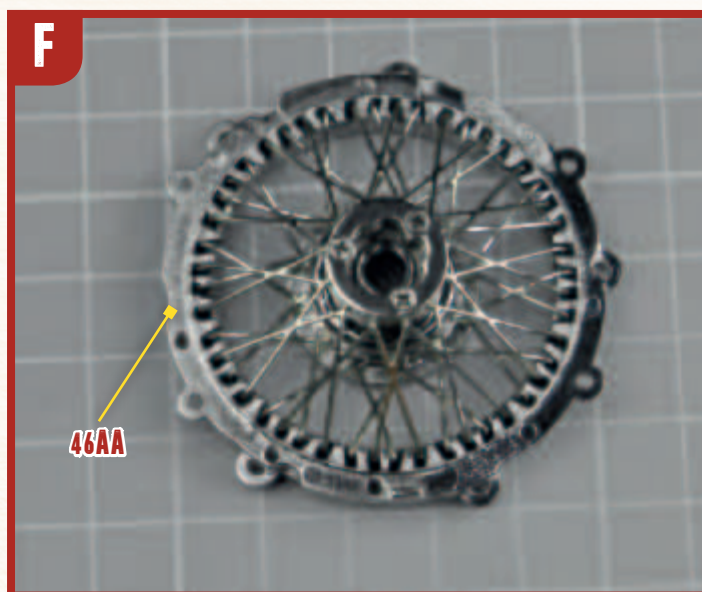
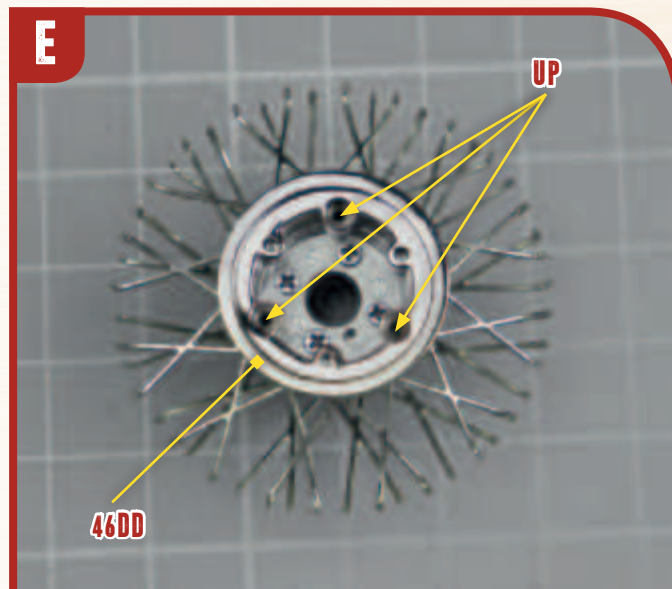
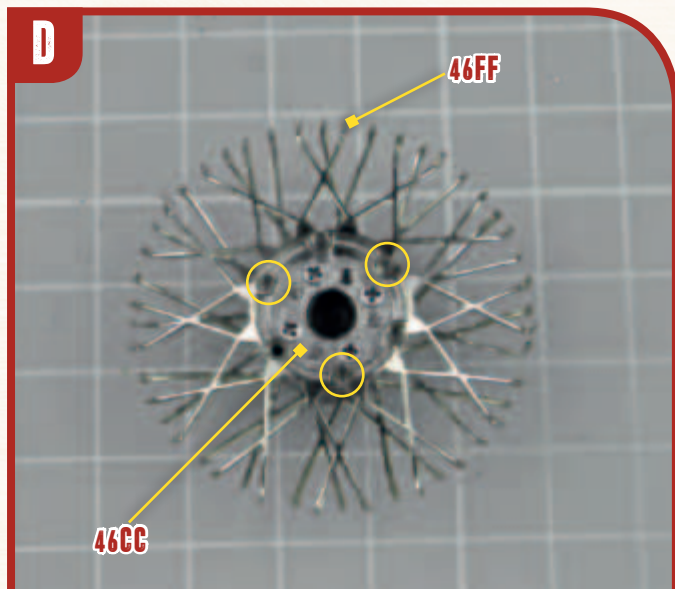
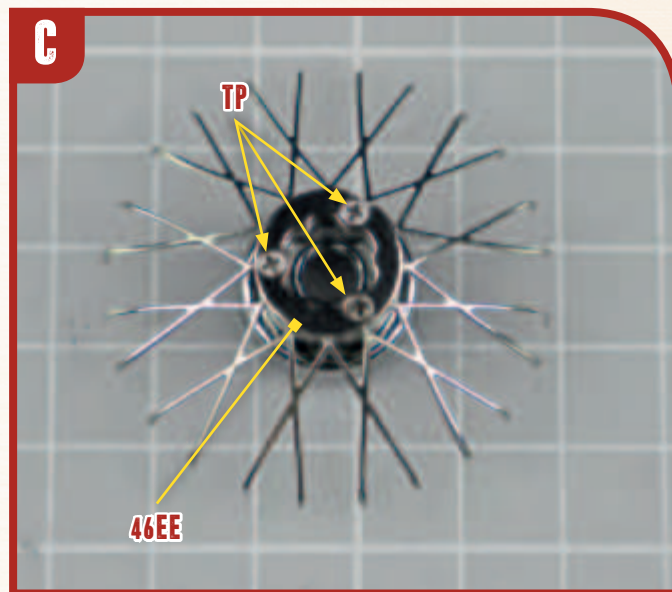
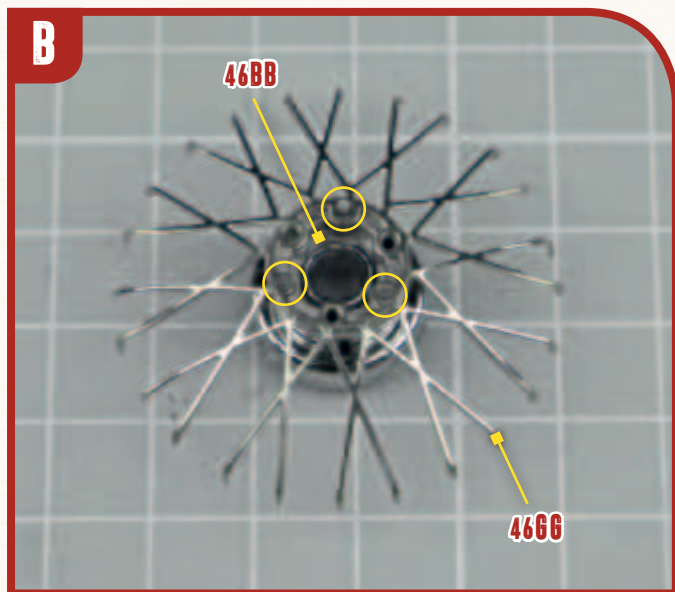


46AA Central ring 1
46BB Hub 1
46CC Hub 2
46DD Hub 3
46EE Hub 4
46FF Spokes 1

46GG Spokes 2
LP 5 screws (1.5x3mm)
TP 4 screws (1.5x5mm)
UP 4 screws (1.7x4mm)

A





47 PARTS LIST

REGULAR ASSEMBLY

- 47A** Inner rim
- 47B** Central ring 3
- 47C** Hub 2
- 47D** Spokes 3
- 47E** Double-sided tape
- CM** 4 screws (1.7x4mm)
- KM** 5 screws (1.5x5mm)

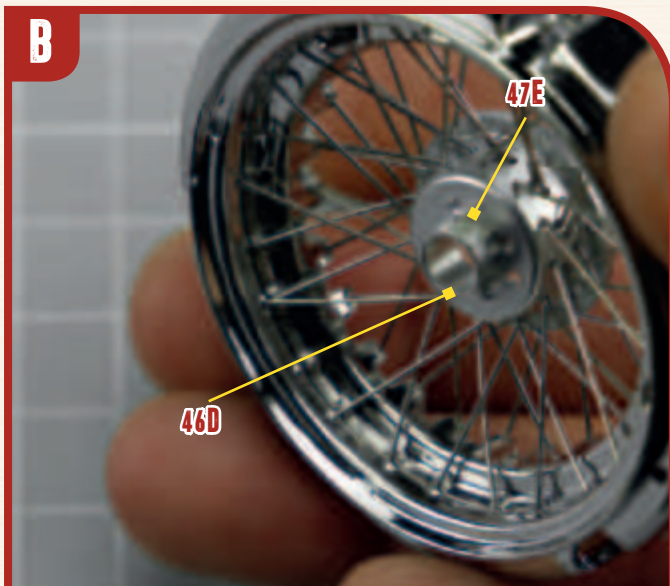


A

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

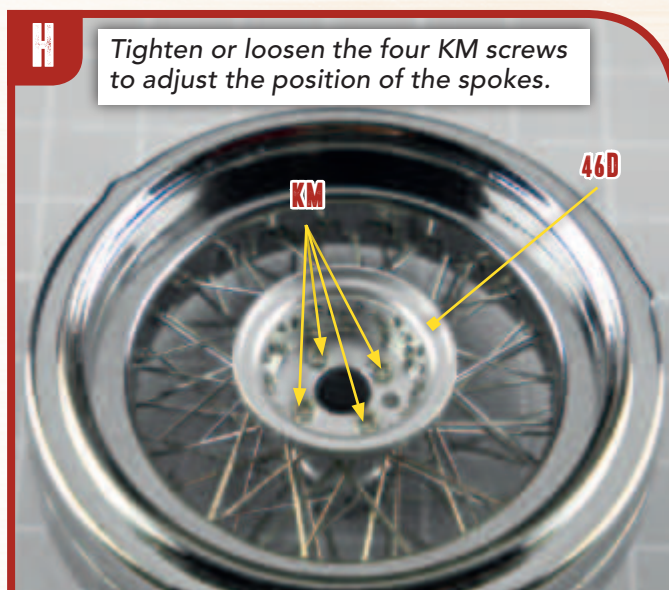
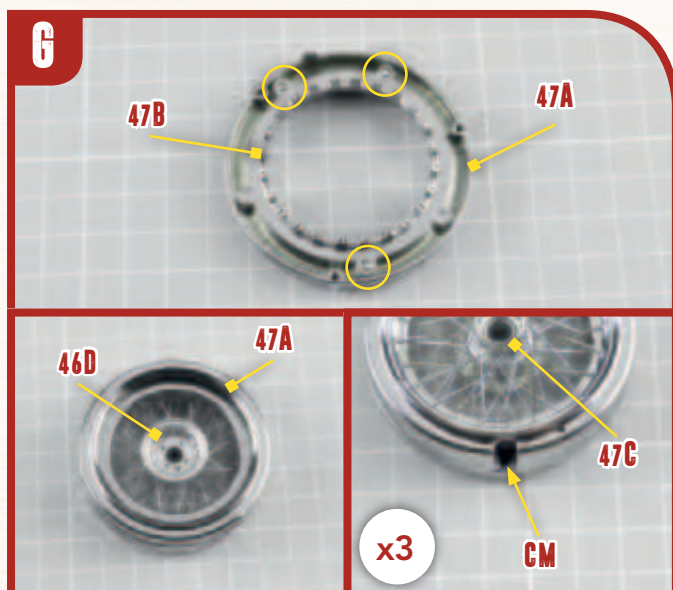
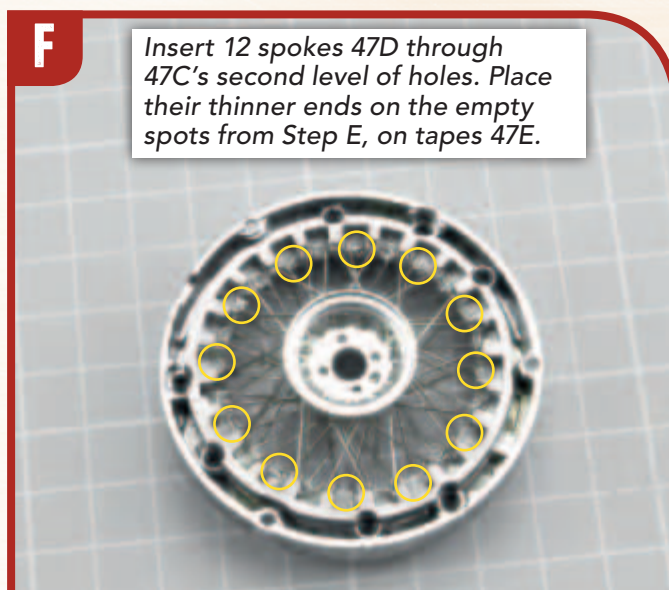
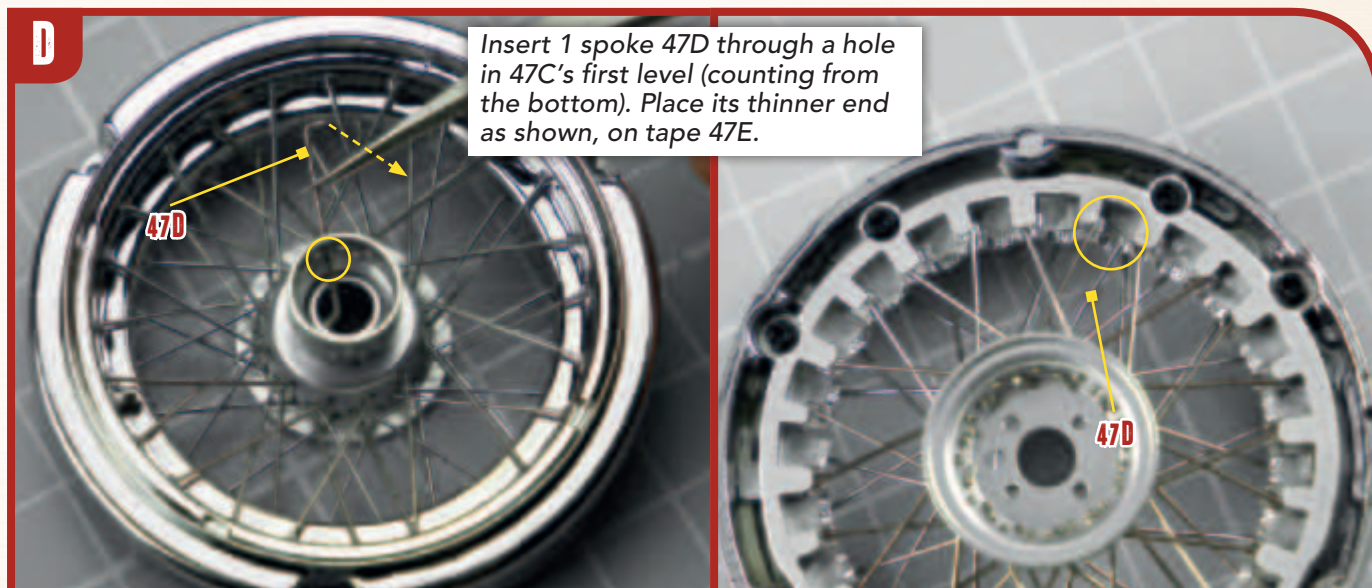


B



C





47B PARTS LIST

EASY ASSEMBLY

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

- AP 5 screws (1.7x4mm)
- CM 8 screws (1.7x4mm)



47AA



47BB



47CC

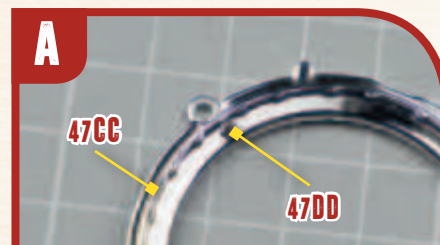
47DD



AP



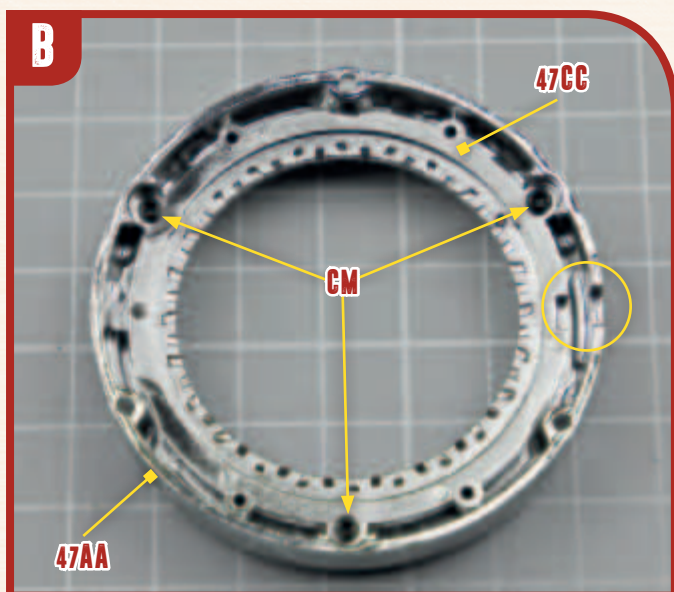
CM



A

47CC

47DD

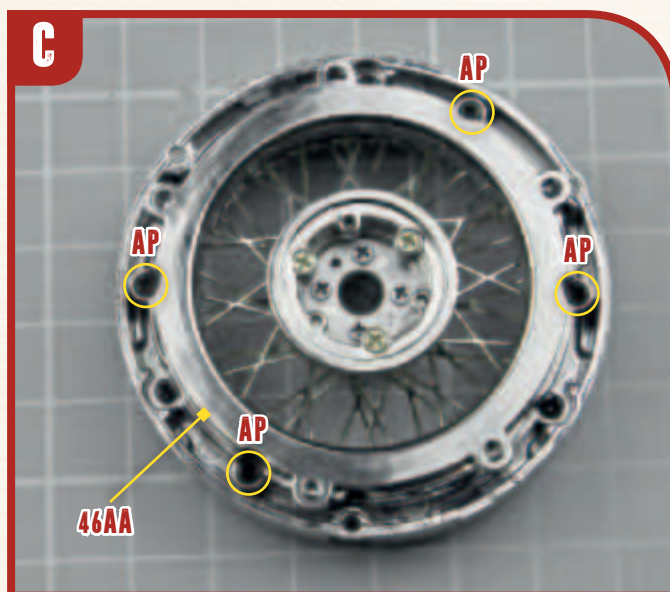


B

47CC

CM

47AA



C

AP

AP

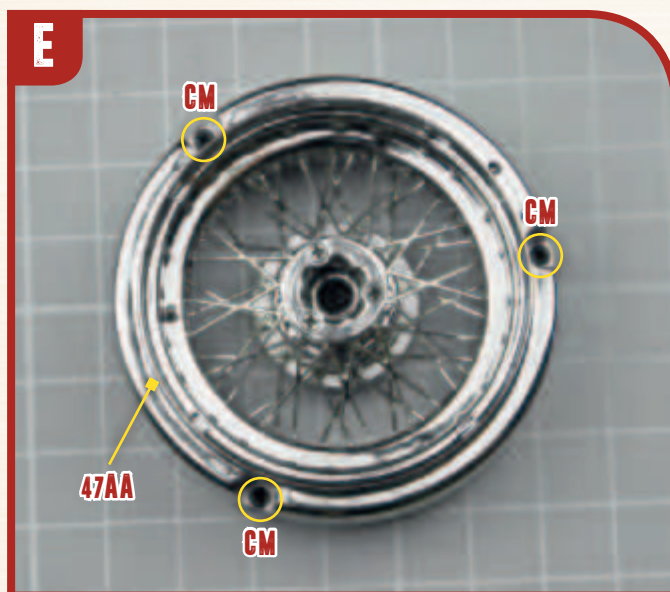
AP

46AA



D

47BB



E

CM

CM

47AA

CM

48 PARTS LIST

REGULAR ASSEMBLY

- 48A** Tyre
- 48B** Hub 3
- 48C** Hubcap
- 48D** Washer ring
- JM** 2 screws (2x5mm)

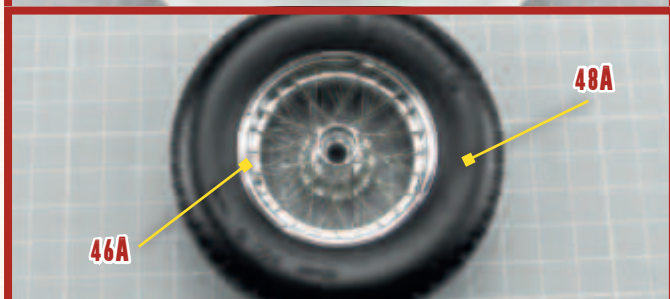


A

Soften tyre 48A by placing it in a bowl full of hot water.



B



C



Attach wheel to rear suspension left wishbone 27A

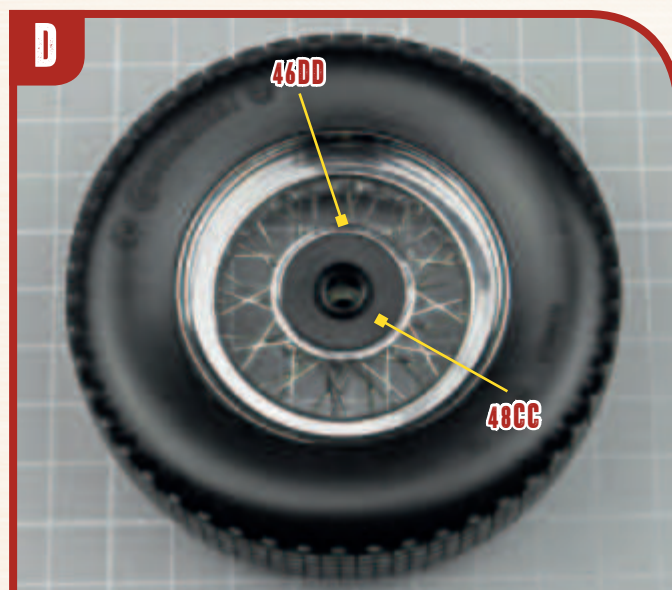
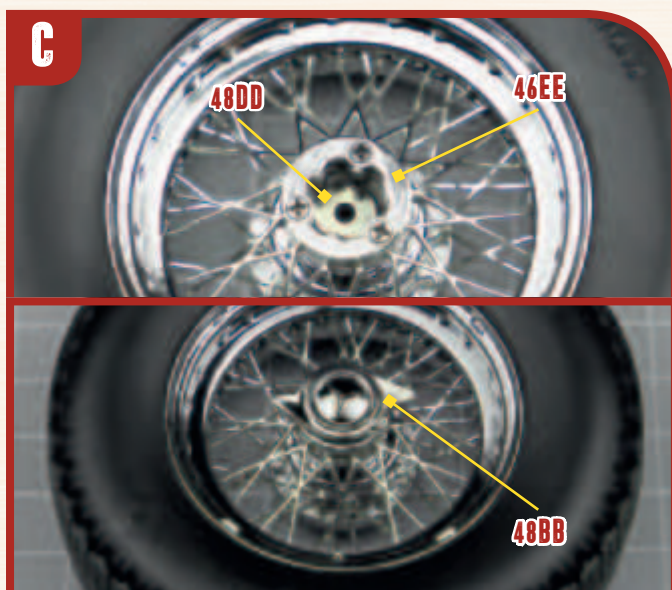
D



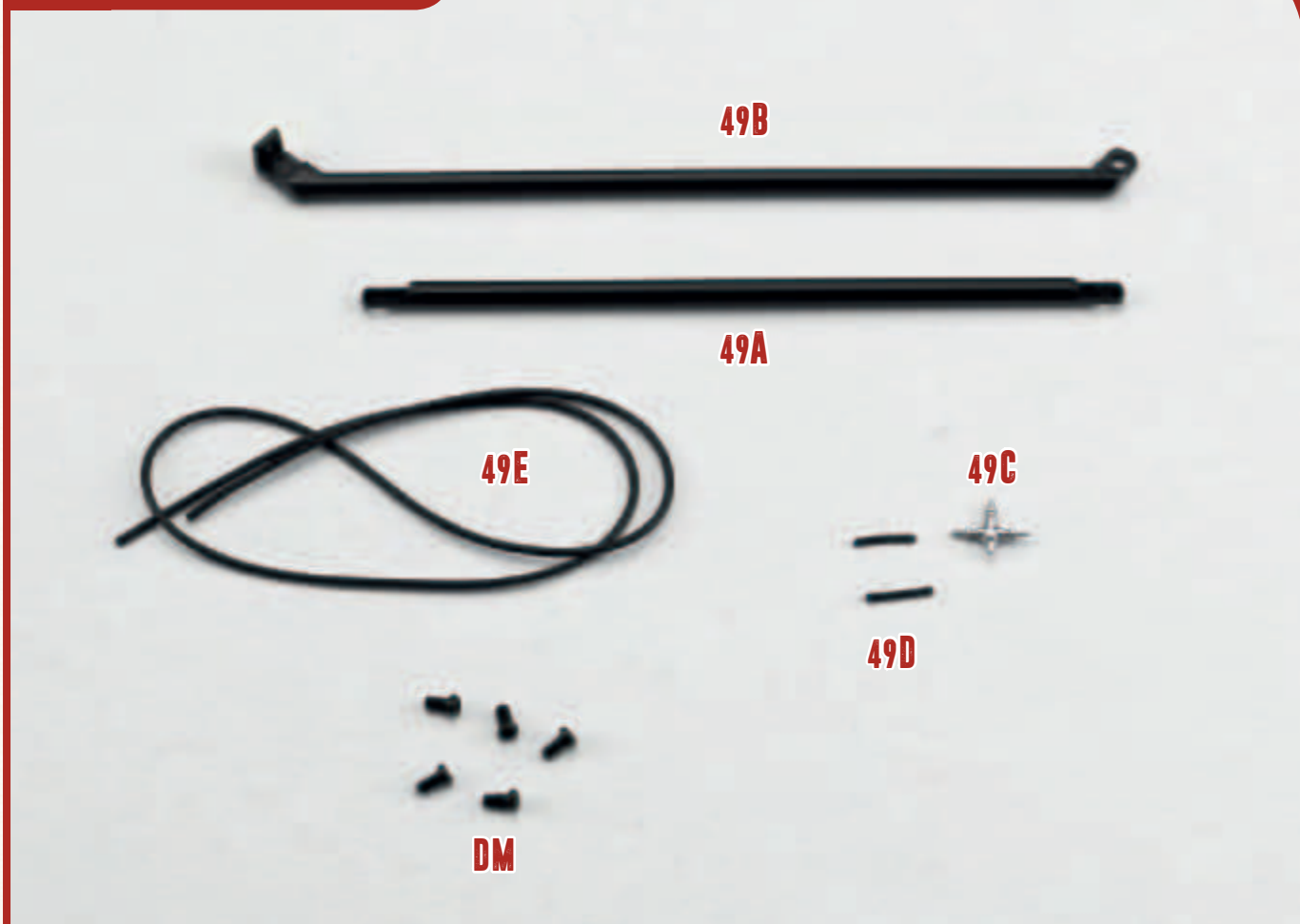
48B PARTS LIST

EASY ASSEMBLY

- 48AA** Tyre
- 48BB** Hubcap
- 48CC** Hub 5
- 48DD** Washer ring
- JM** 2 screws (2x5mm)



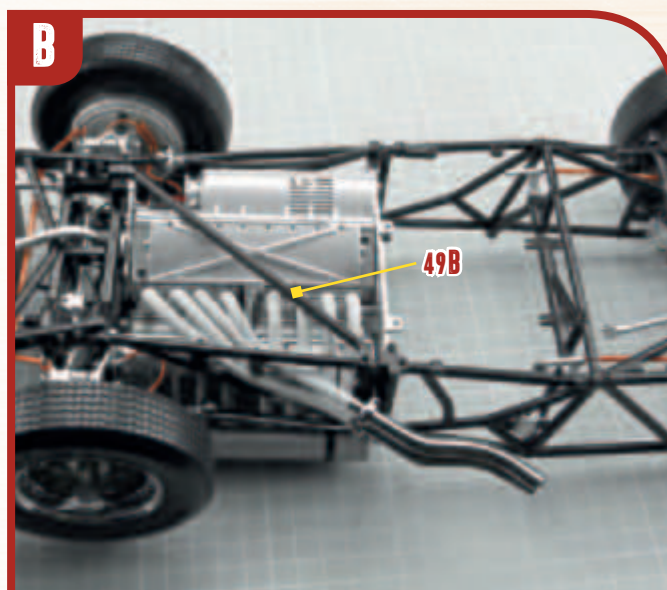
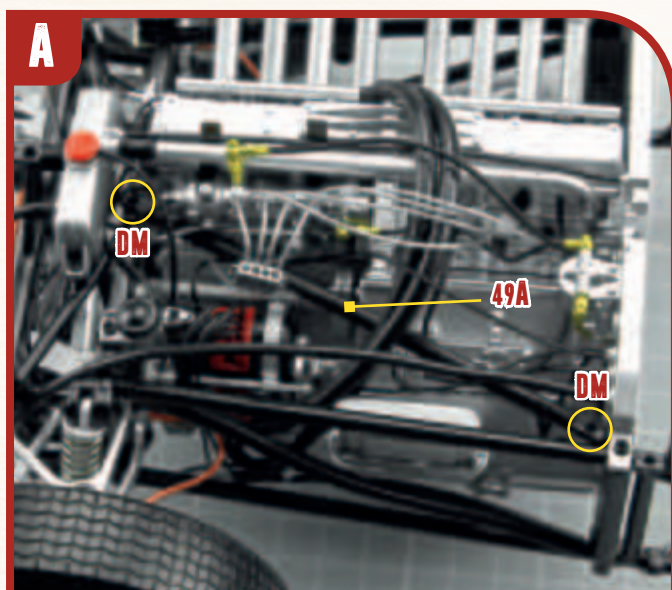
49 PARTS LIST

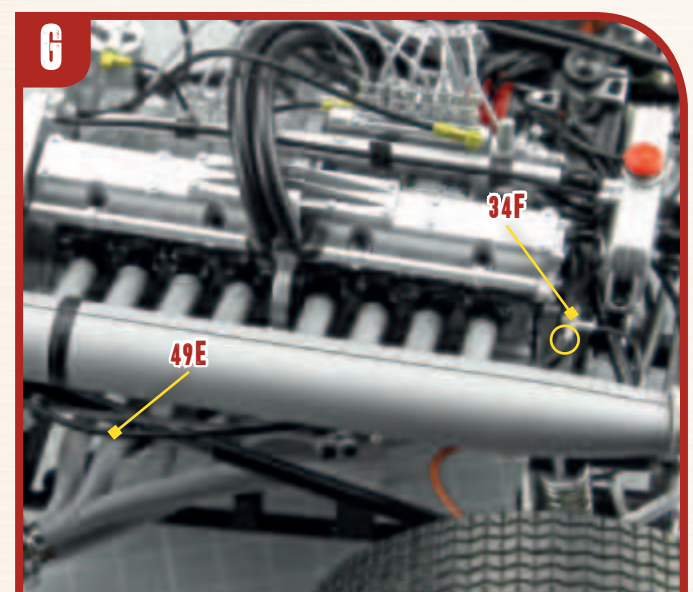
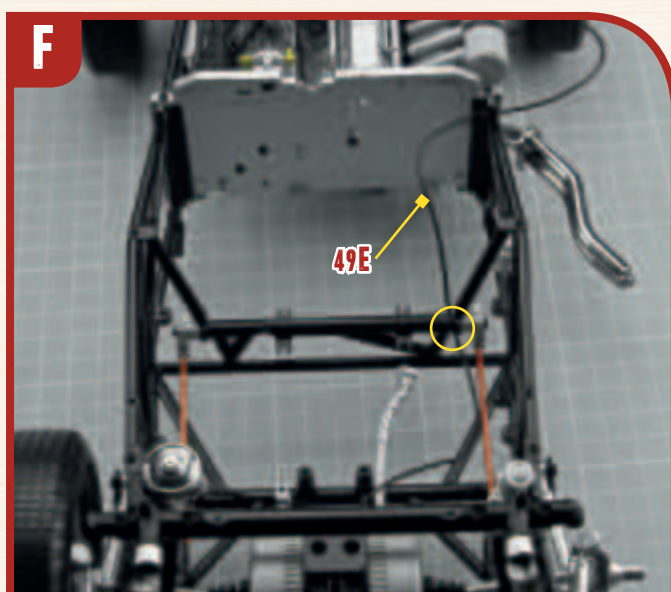
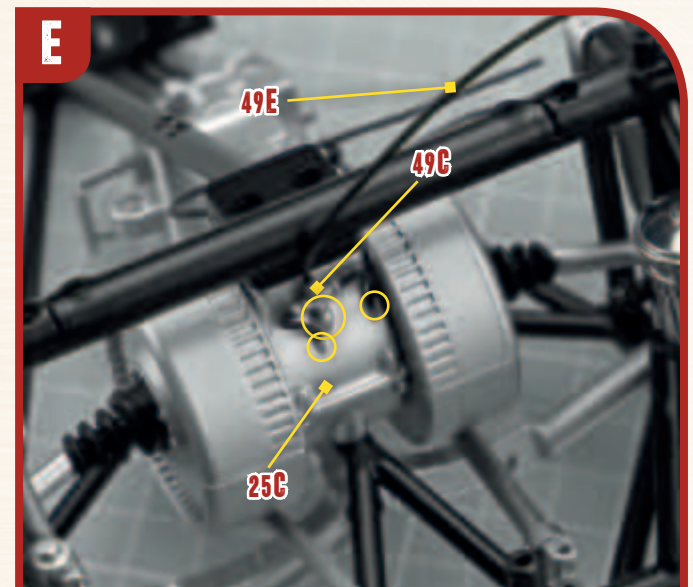
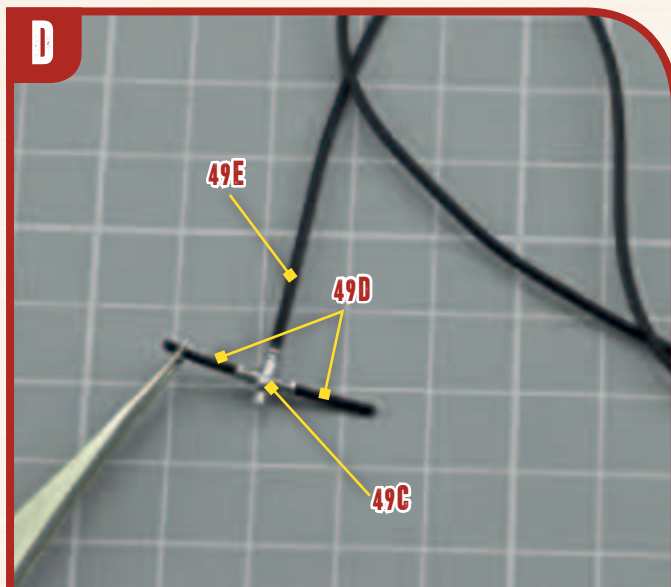
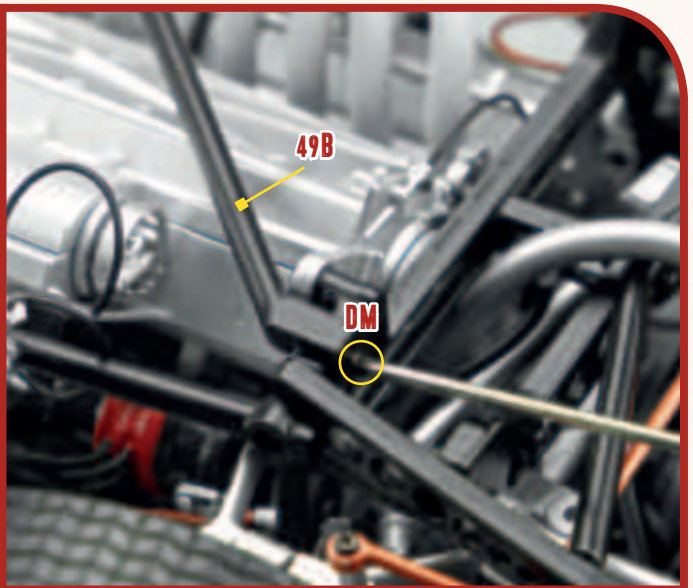
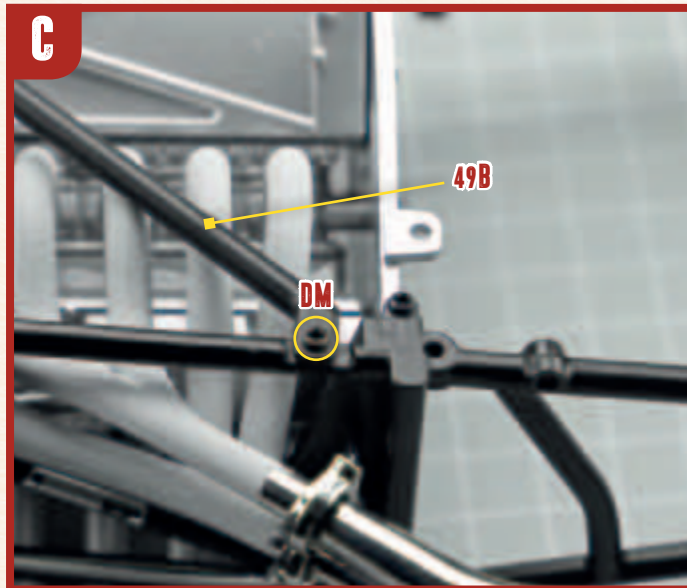


49A Front chassis upper rod
49B Front chassis lower rod
49C Rear brakes distributor

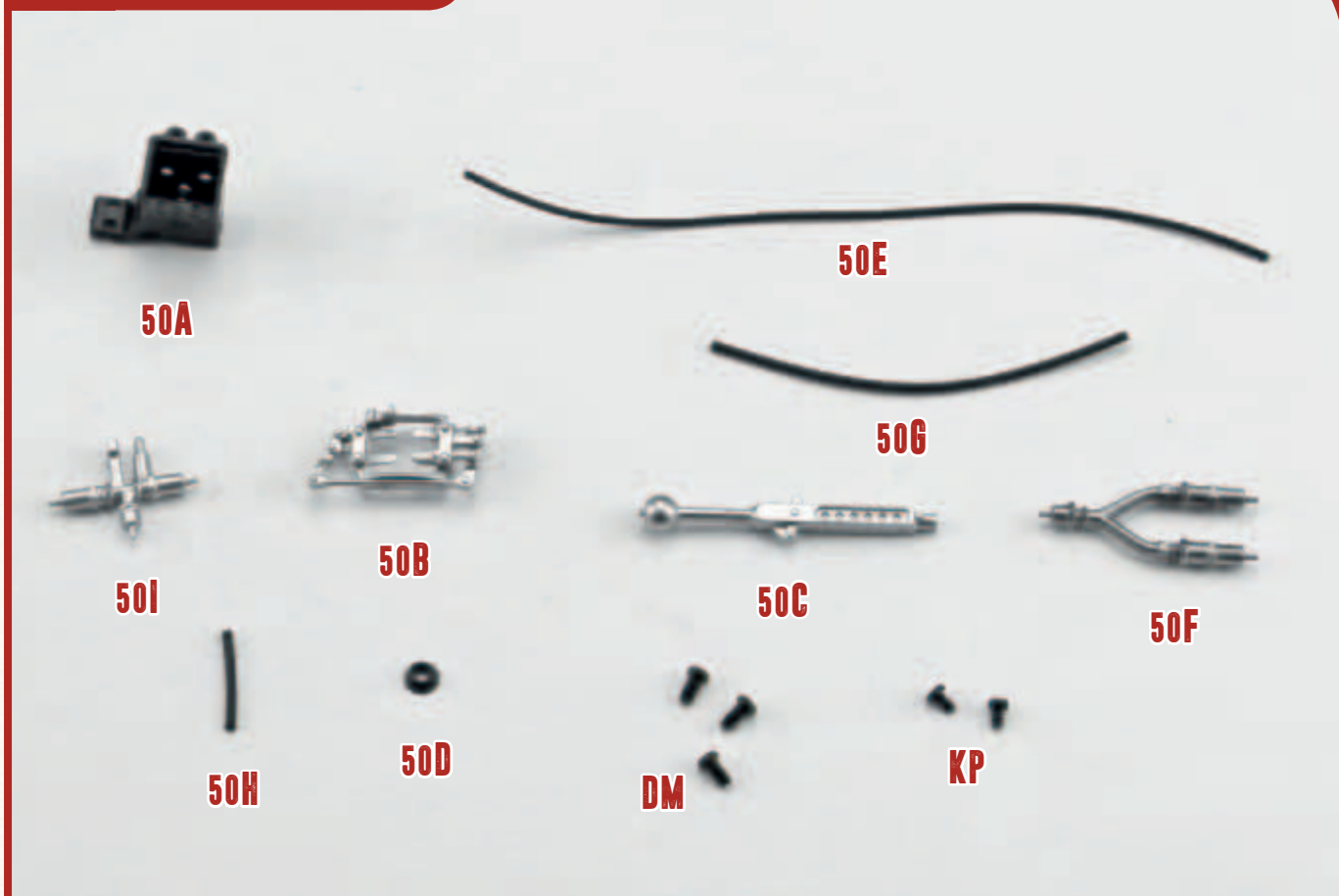
49D Tubes (x2)
49E Rear brakes line

DM 5 screws (2x4mm)





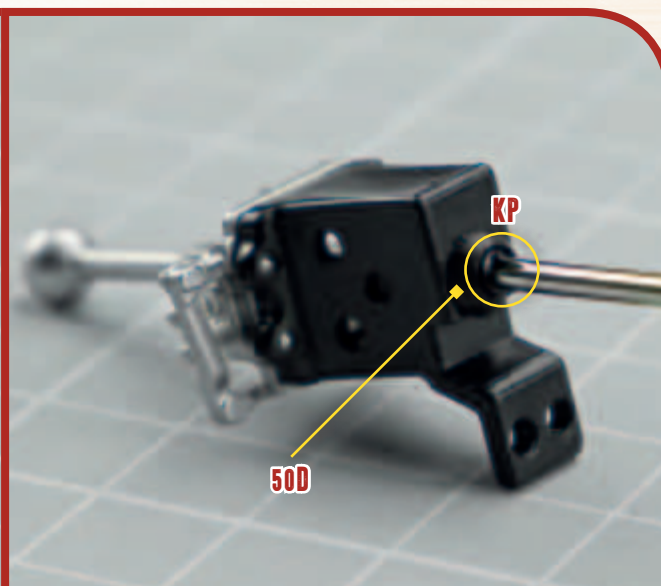
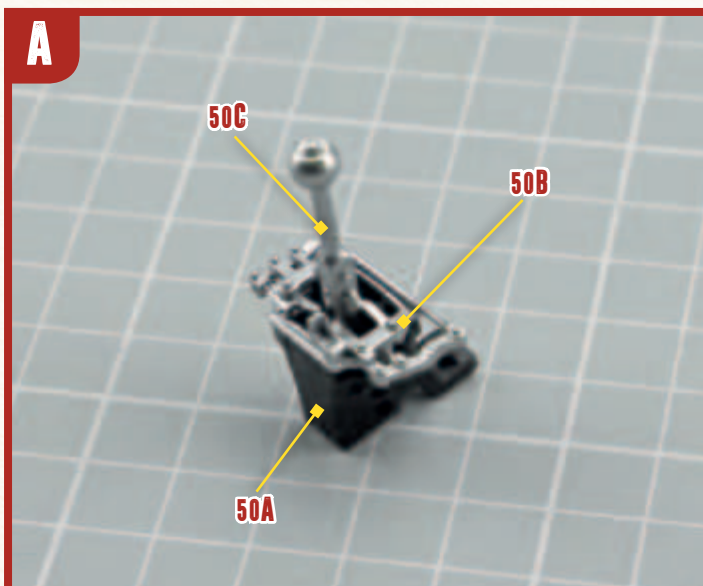
50 PARTS LIST

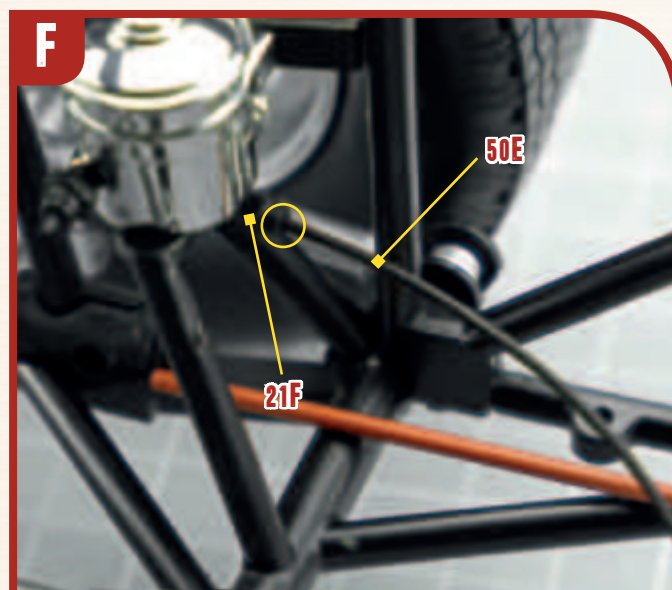
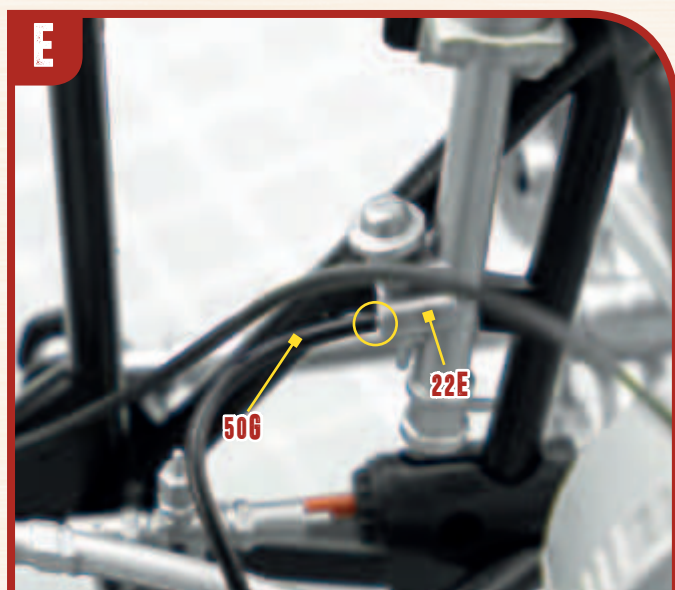
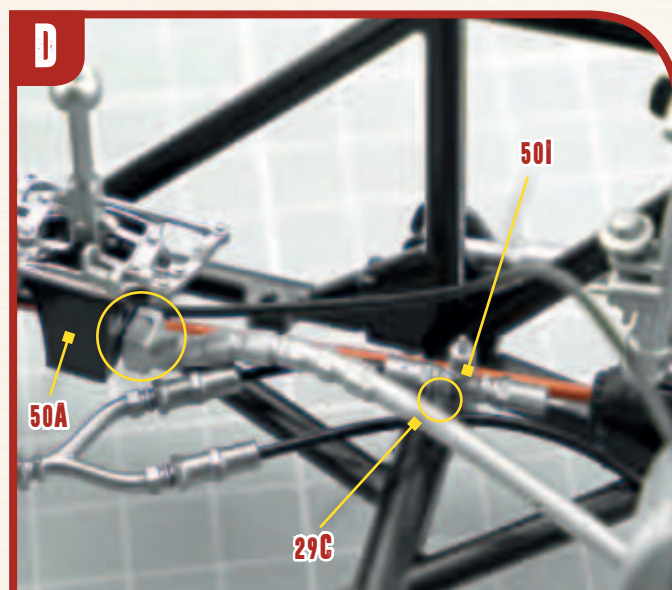
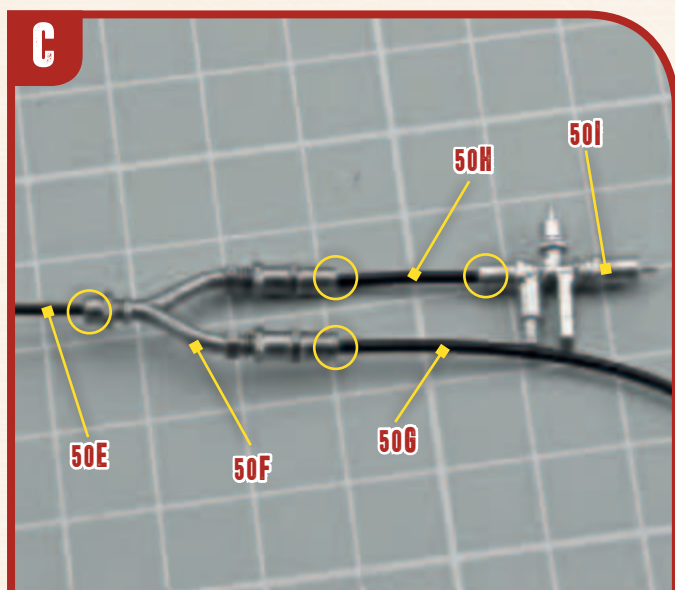
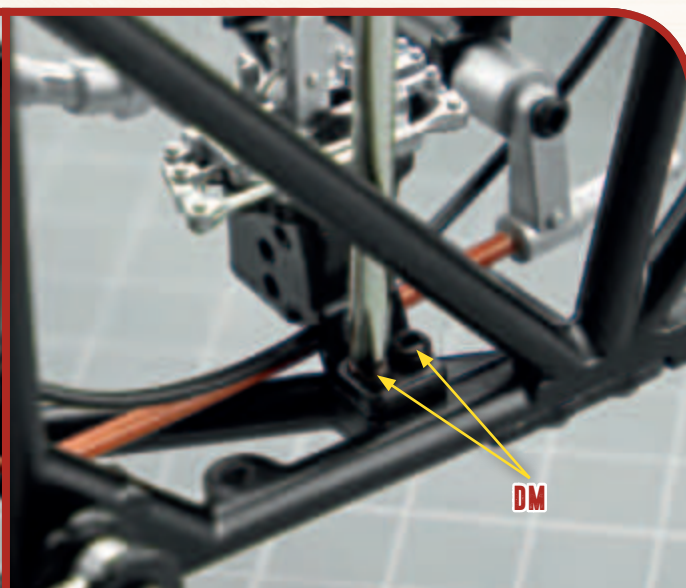
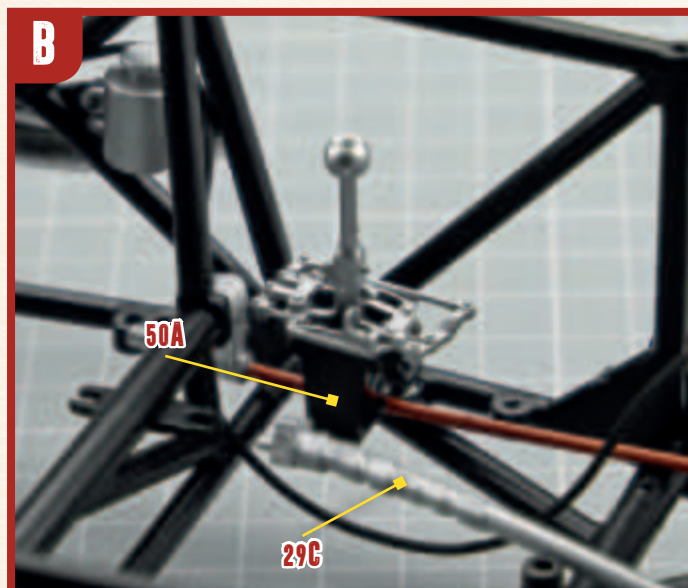


50A Gear lever base
50B Gear lever support
50C Gear lever
50D Washer ring

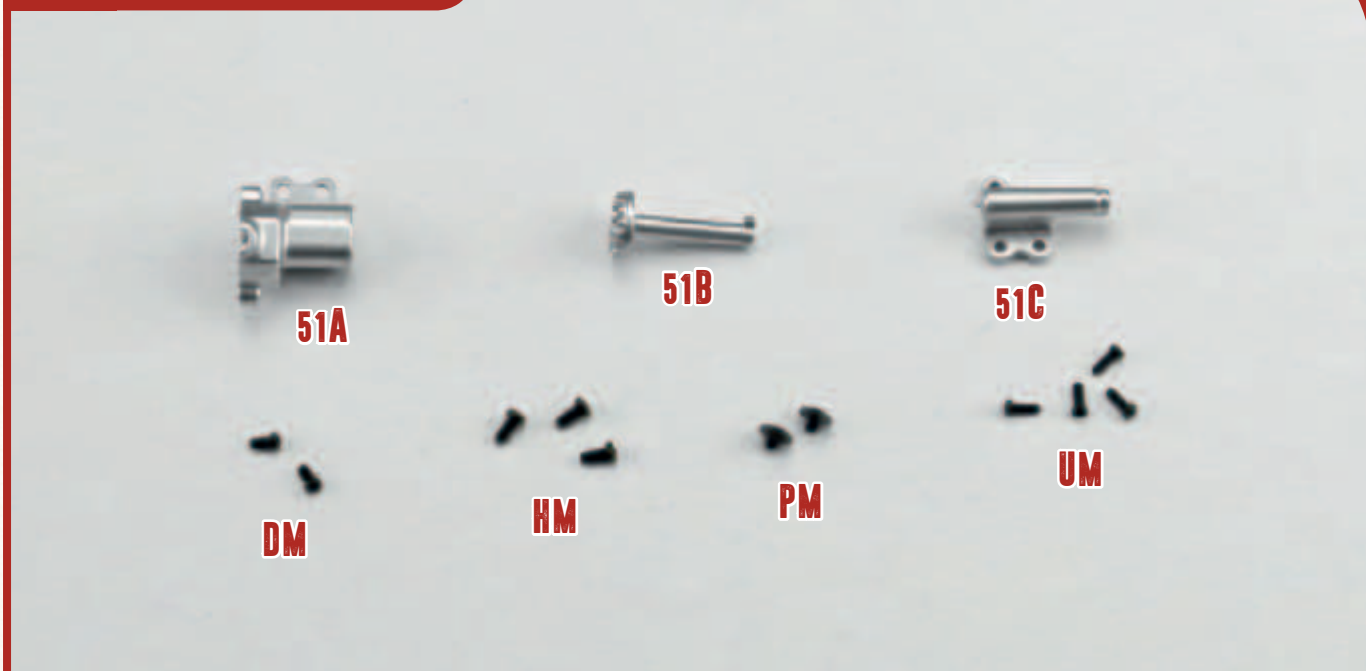
50E Tube 1
50F Y-shaped pipe
50G Tube 2
50H Tube 3

50I Pipe
KP 2 screws (1.7x3mm)
DM 3 screws (2x4mm)





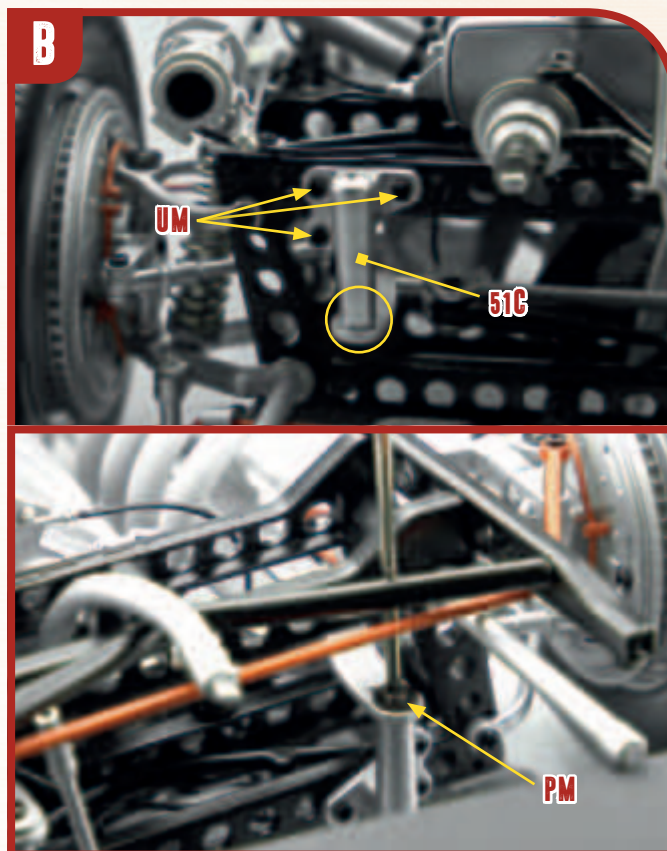
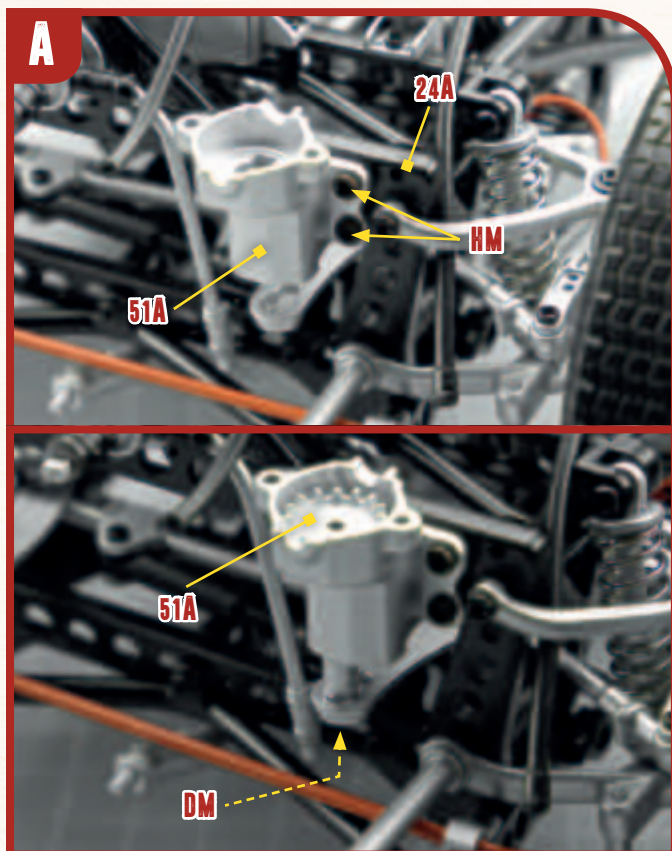
51 PARTS LIST



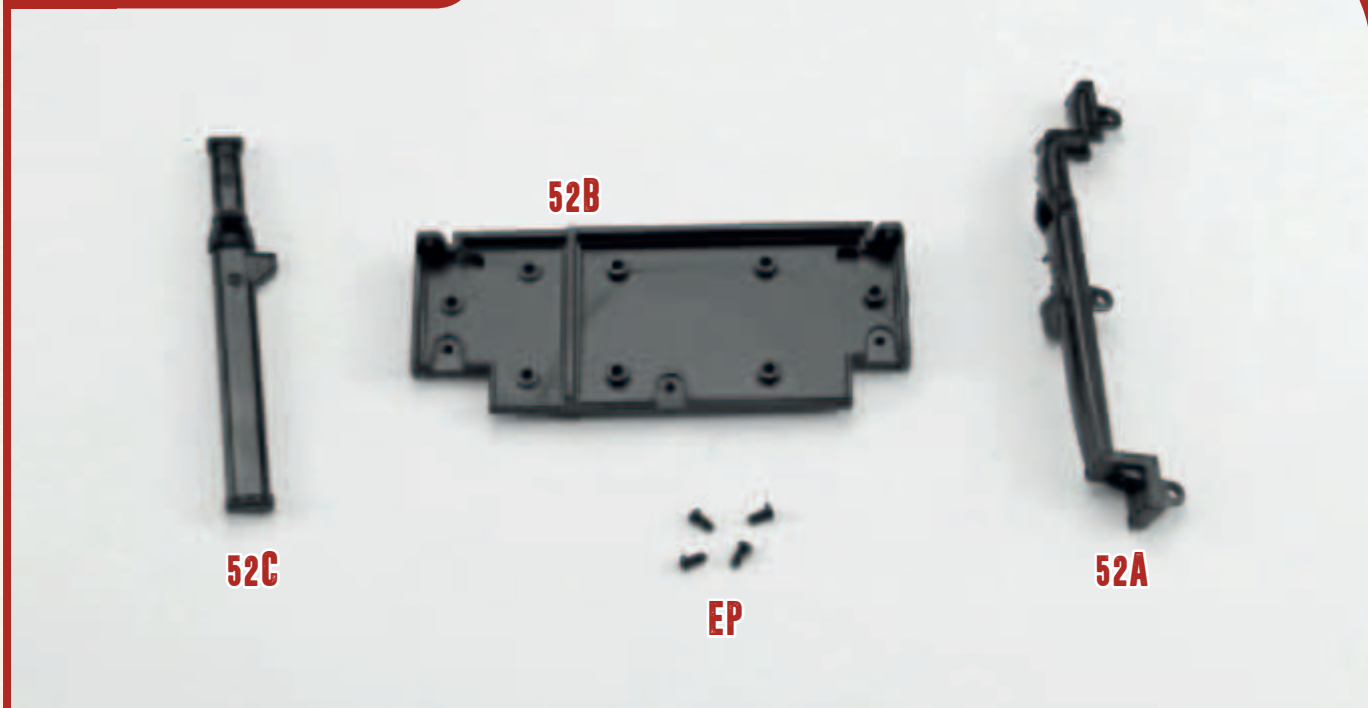
51A Steering box
51B Steering gear
51C Steering support

DM 2 screws (2x4mm)
HM 3 screws (2.3x5mm)
PM 2 screws (2x3x6mm)

UM 4 screws (1.7x5mm)



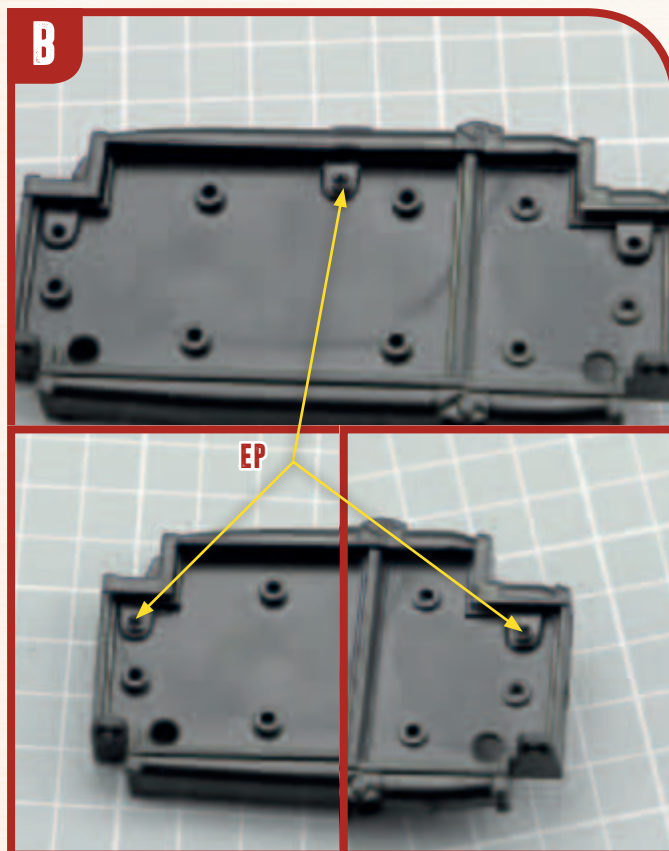
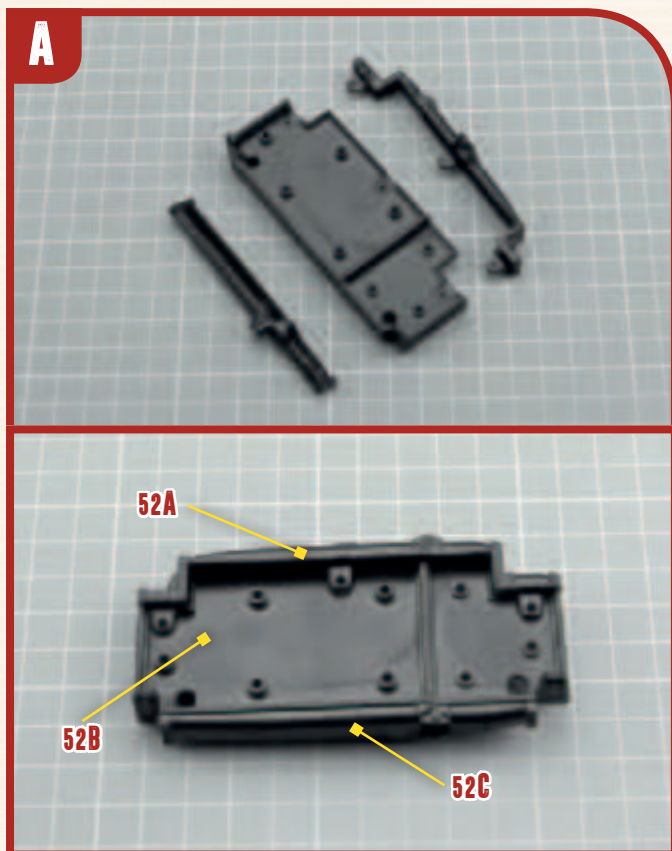
52 PARTS LIST



52A Radiator upper cover
52B Radiator frame

52C Radiator lower cover

EP 4 screws (2x4mm)



53 PARTS LIST



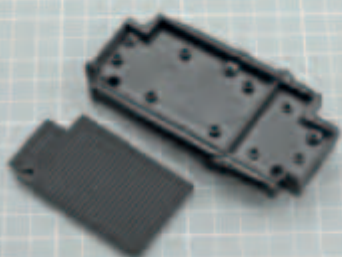
53B



53A

- 53A** Radiator front panel
- 53B** Radiator rear panel

A

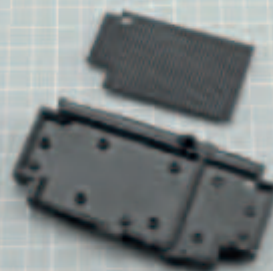


53A



52B

B

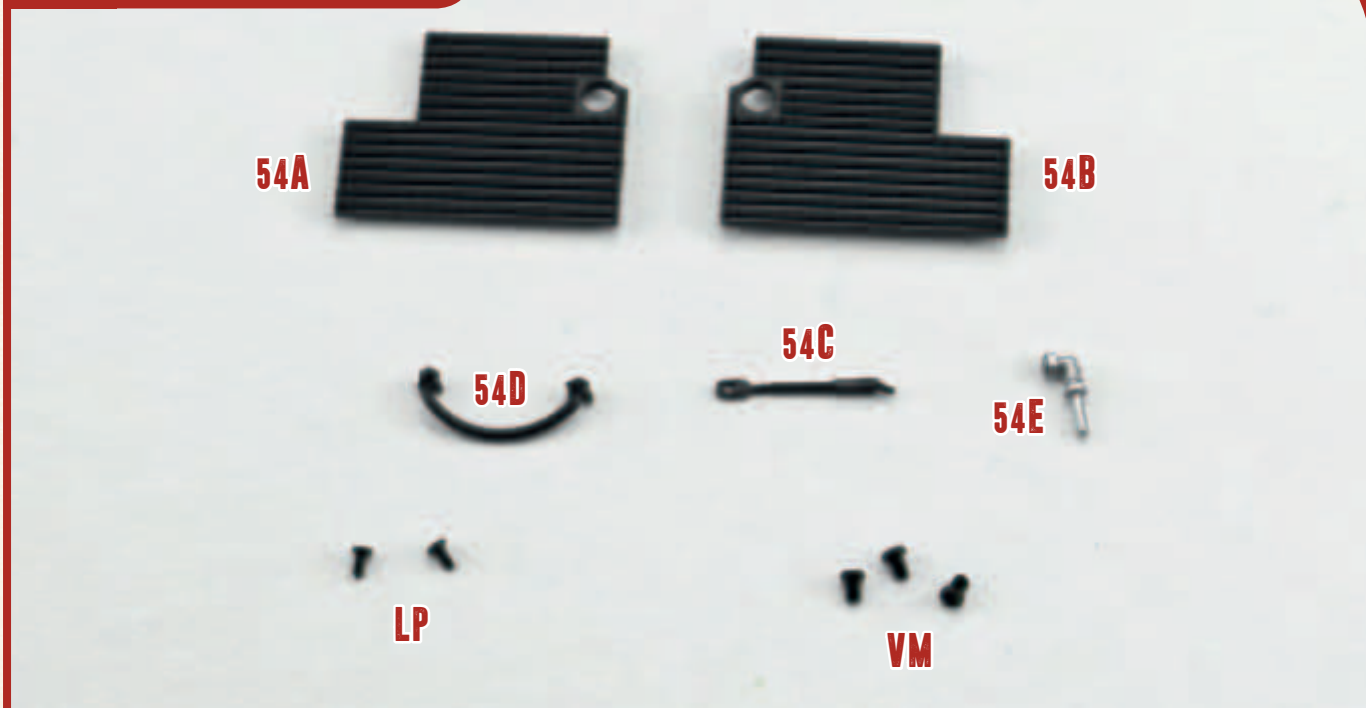


53B



52B

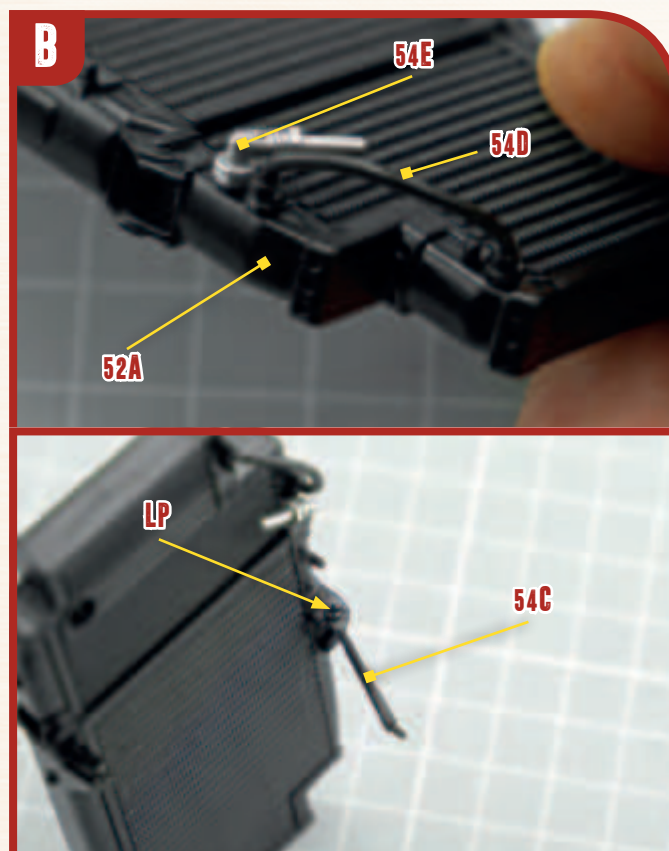
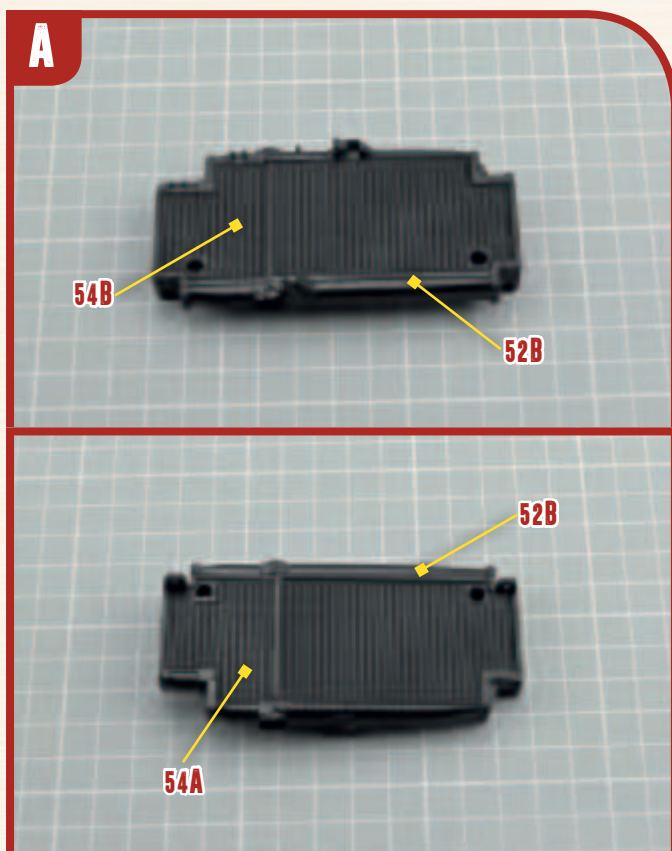
54 PARTS LIST

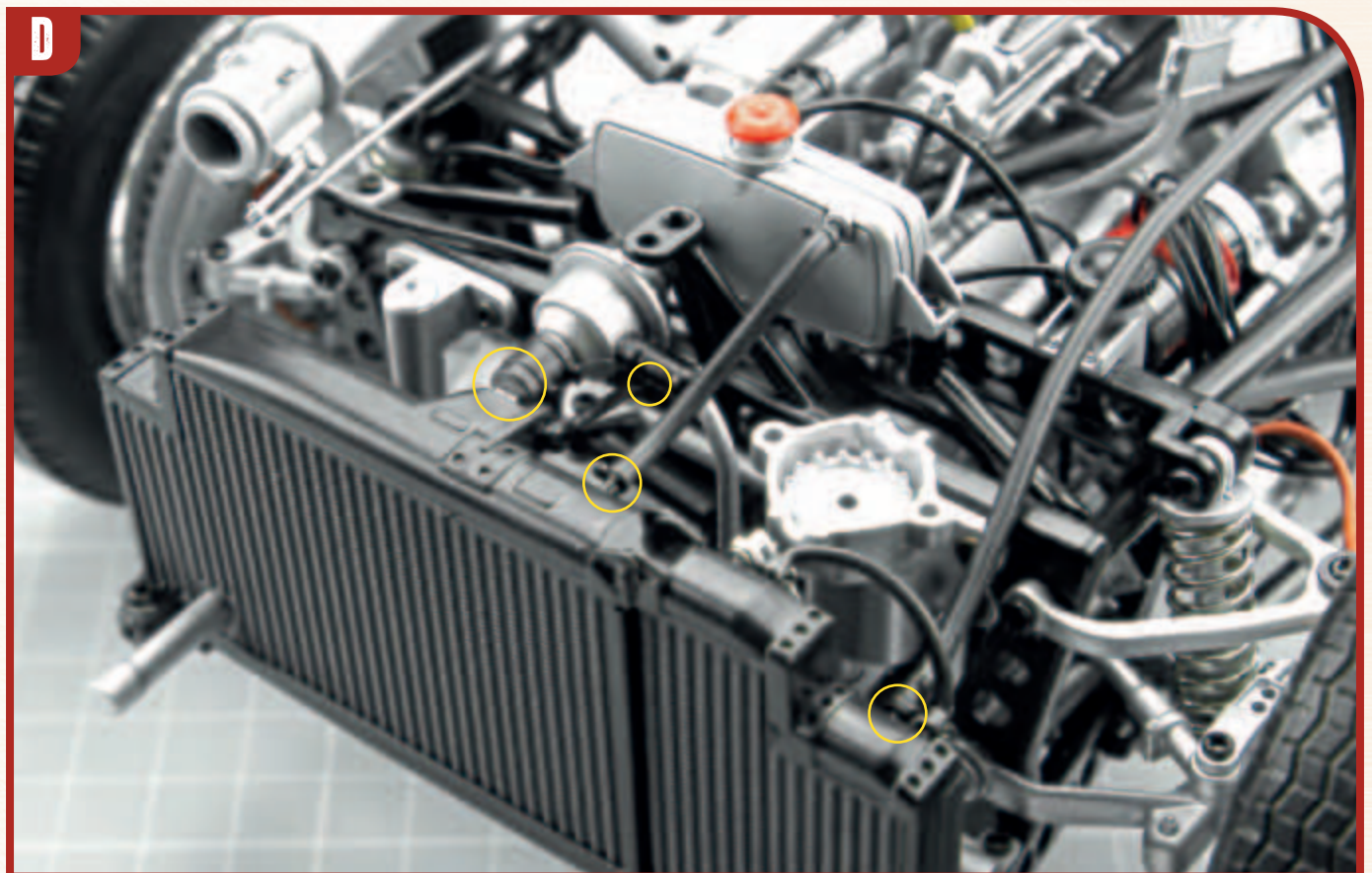
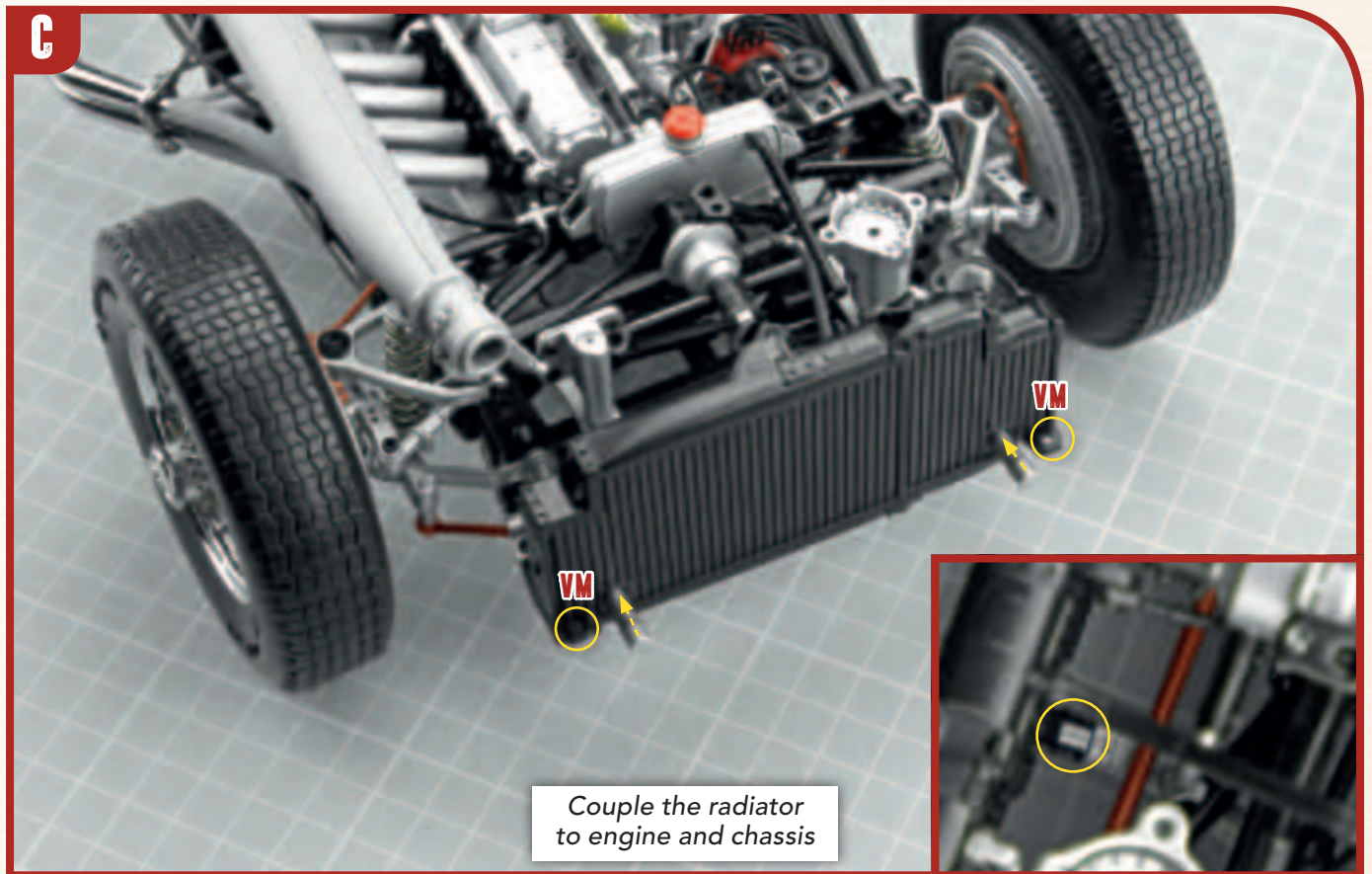


54A Oil radiator front panel
54B Oil radiator rear panel
54C Radiator shock absorber

54D Pipe 1
54E Pipe 2

LP 2 screws (1.5x3mm)
VM 3 screws (2x3mm)





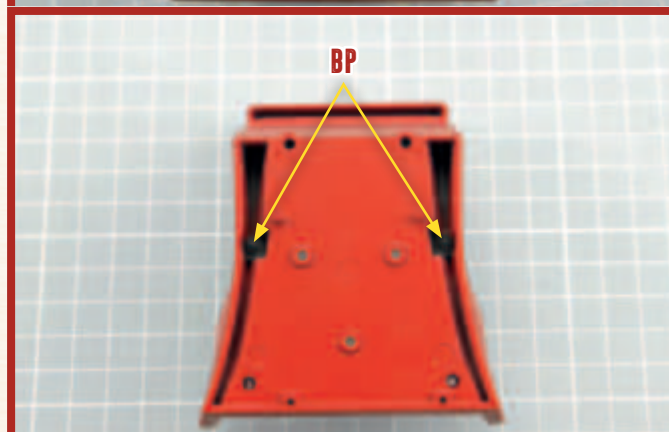
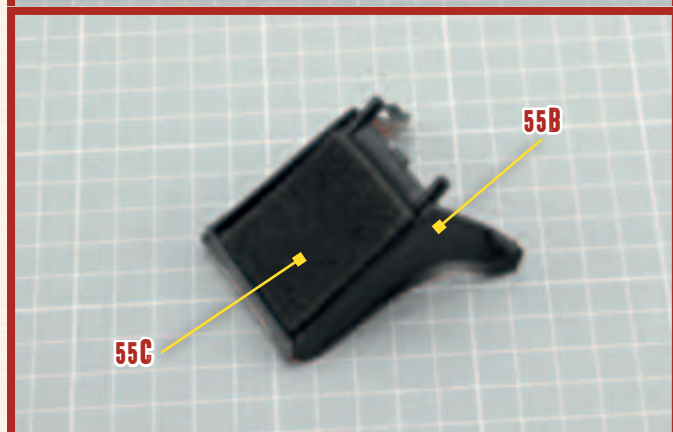
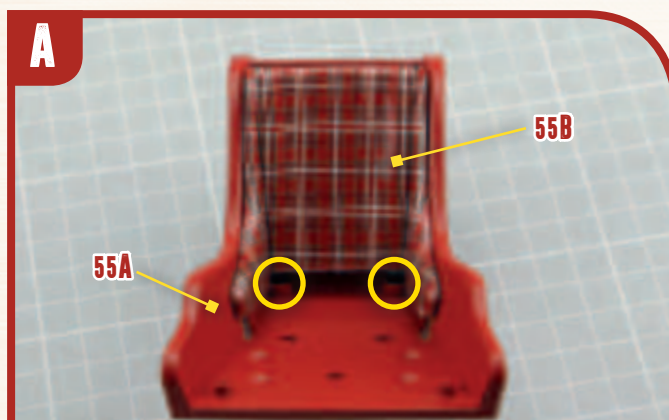
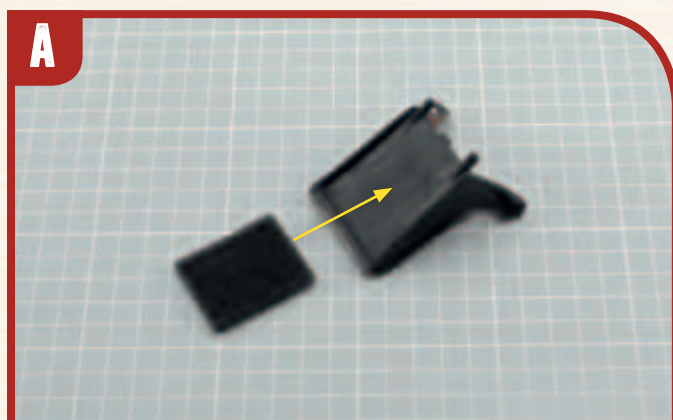
55 PARTS LIST



55A Seat frame
55B Seatback

55C Back padding

BP 3 screws (2x5mm)

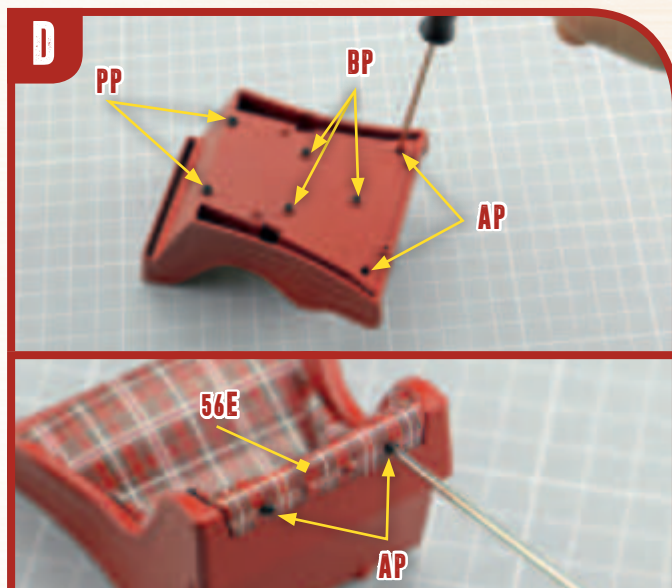
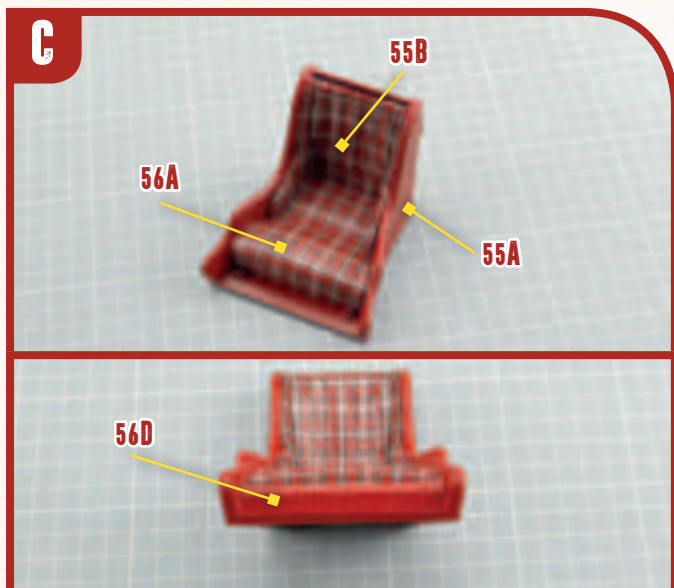
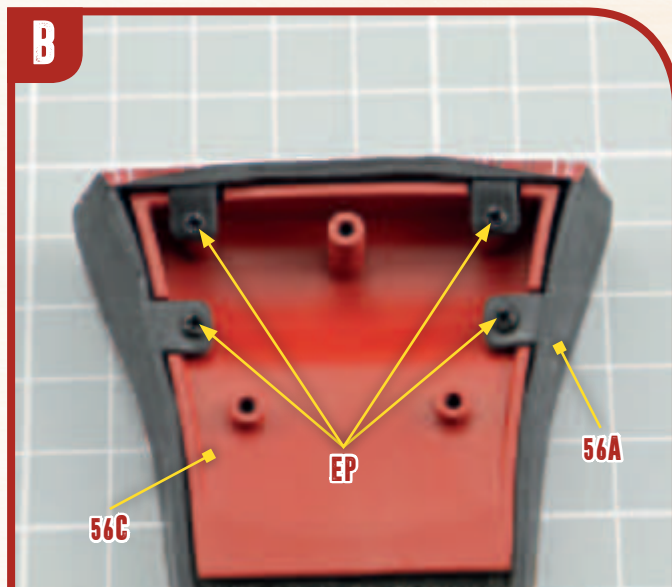
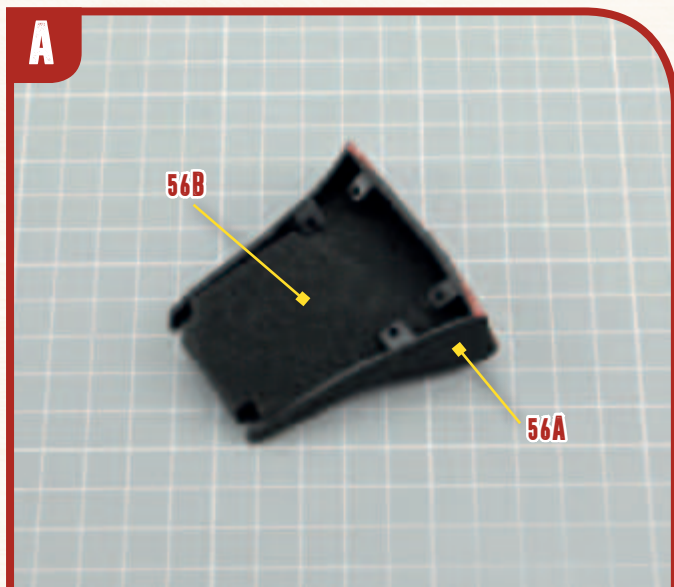


56 PARTS LIST

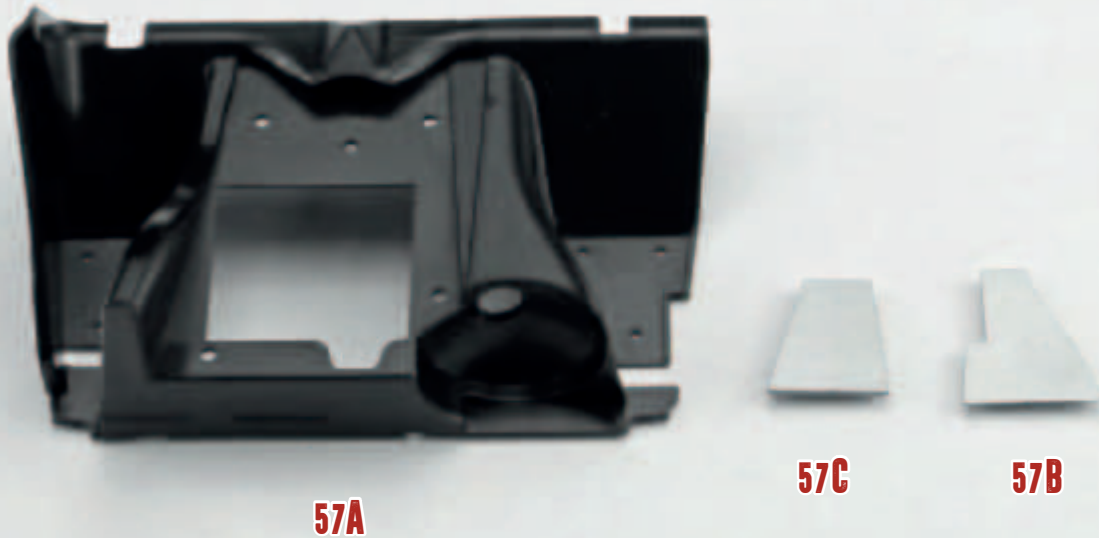


56A Seat
56B Seat padding
56C Frame part A
56D Frame part B
56E Headrest

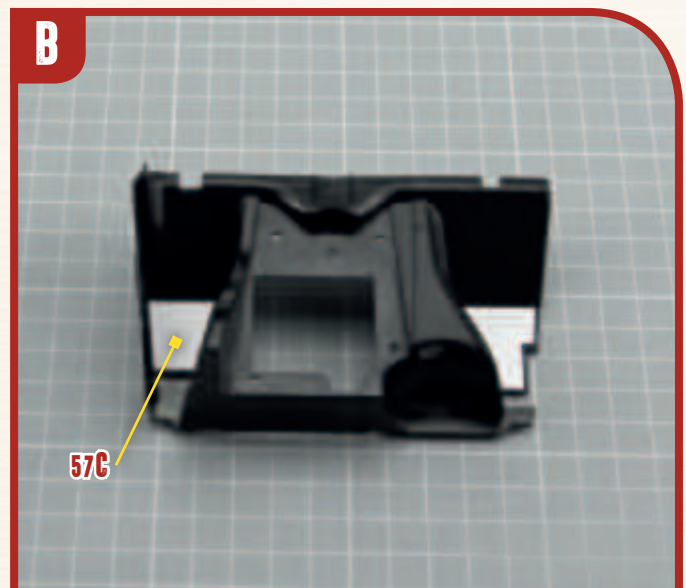
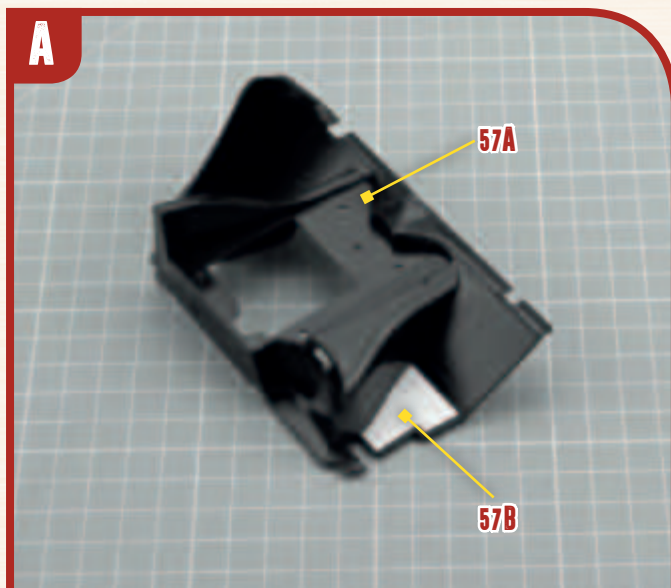
AP 5 screws (1.7x4mm)
BP 4 screws (2x5mm)
EP 5 screws (2x4mm)
PP 3 screws (2.6x7mm)



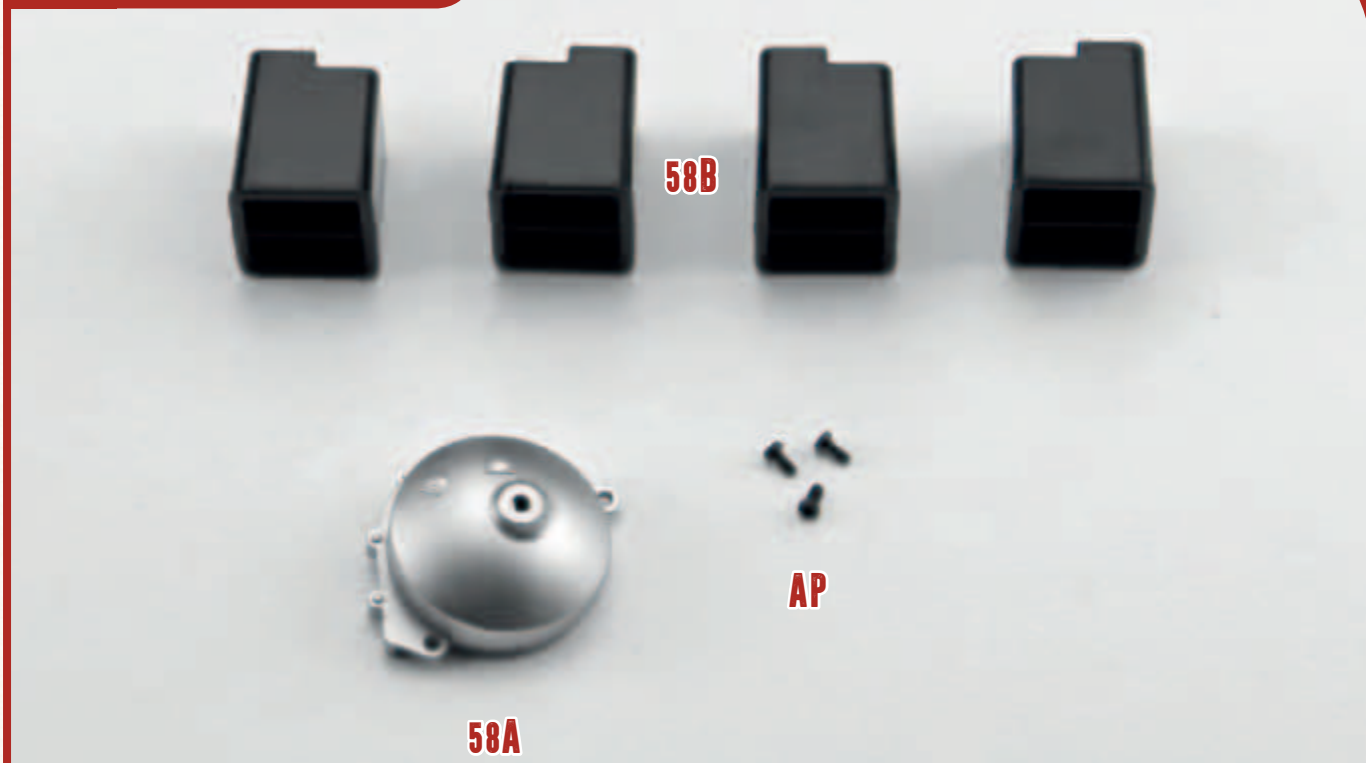
57 PARTS LIST



- 57A** Cockpit floor panel
- 57B** Panel 1
- 57C** Panel 2



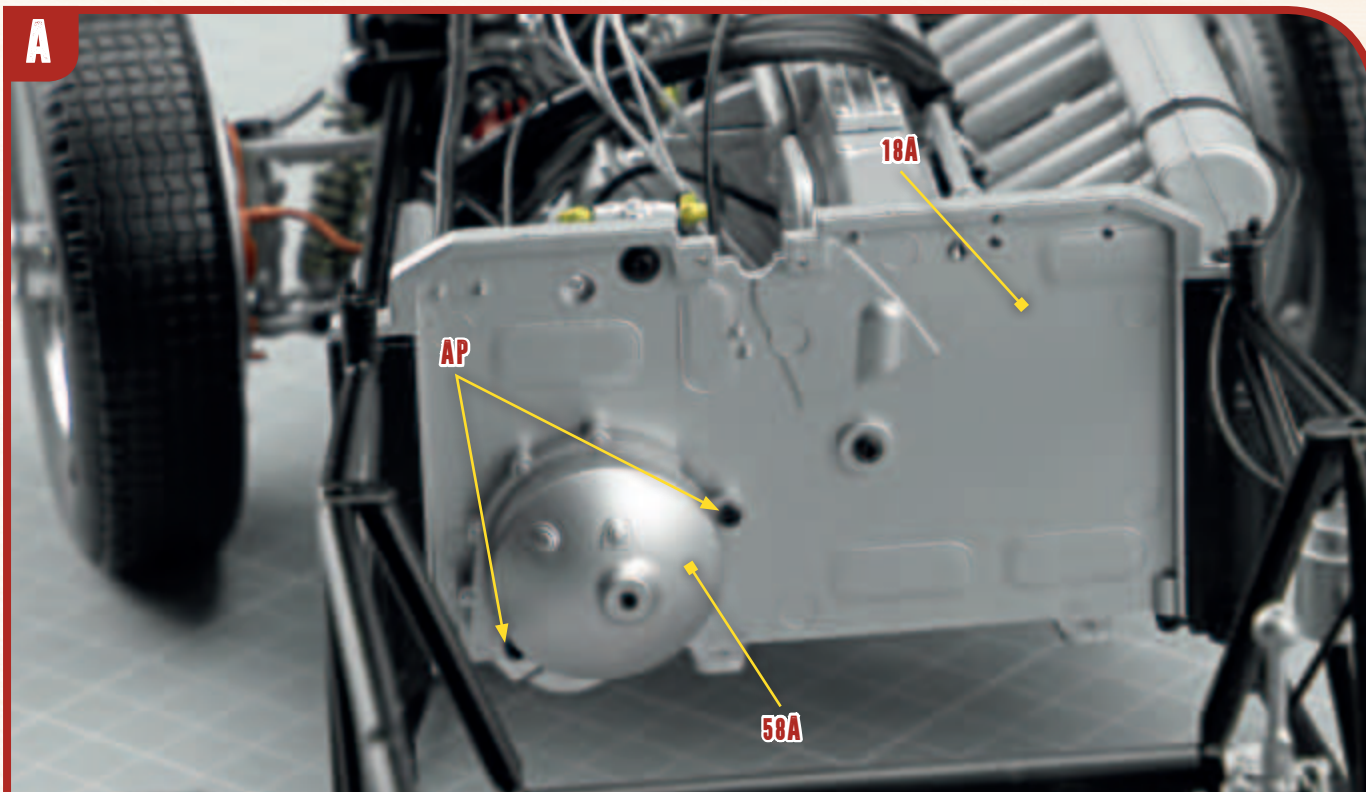
58 PARTS LIST



58A Clutch bell housing
58B Model supports (x4)*

AP 3 screws (1.7x4mm)

* You may choose to put supports 58B beneath your model to keep wheels raised.

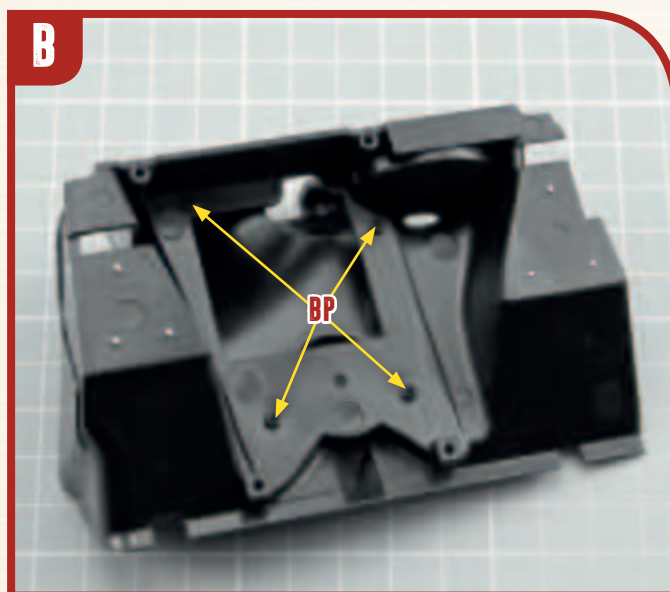
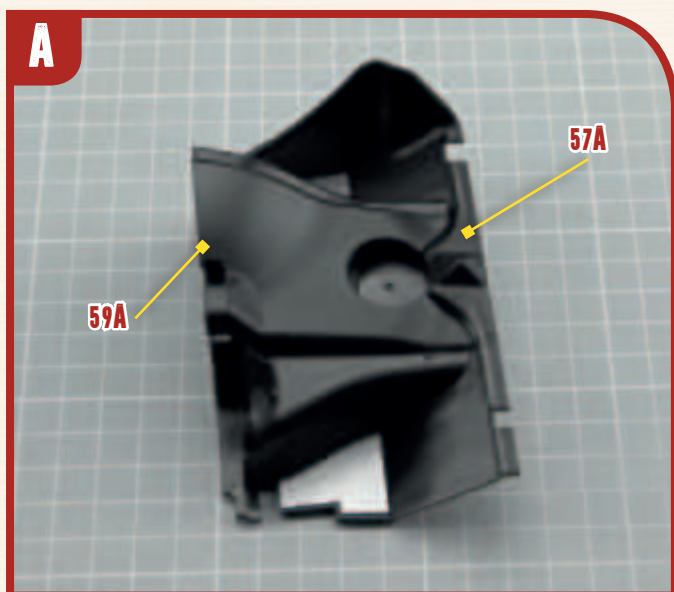


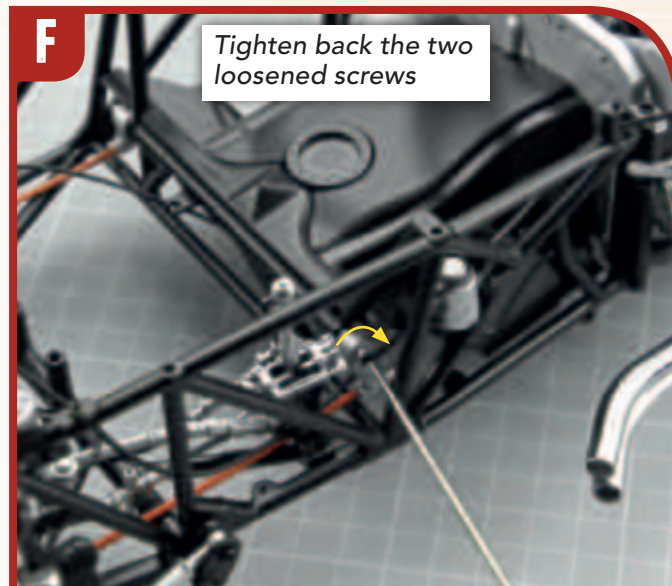
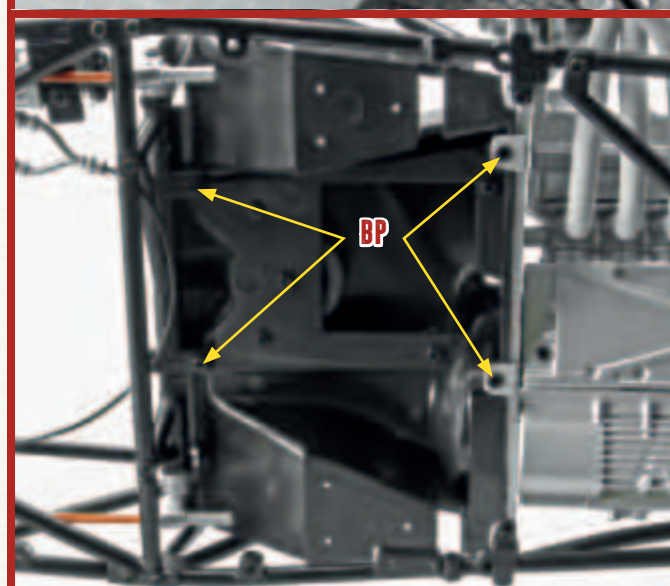
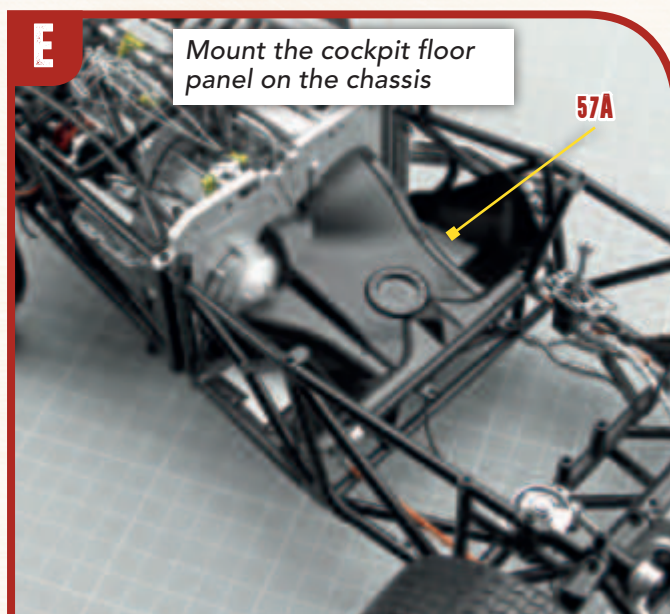
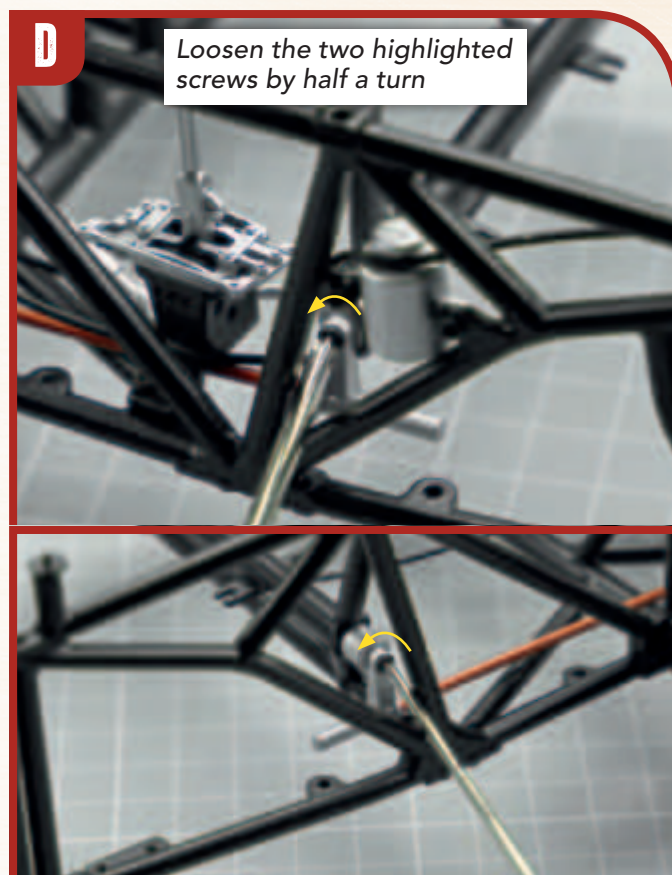
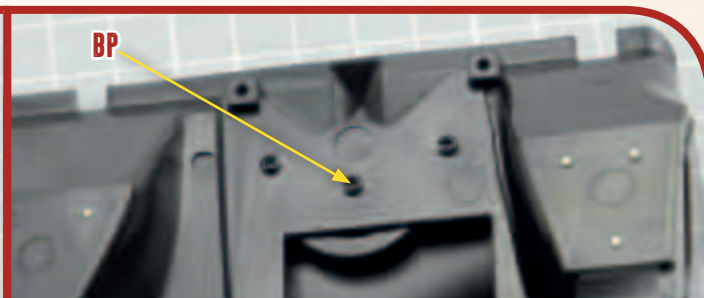
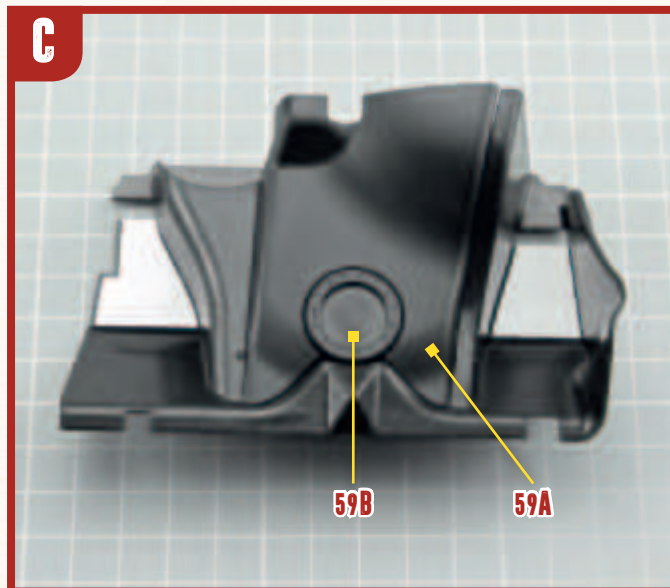
59 PARTS LIST



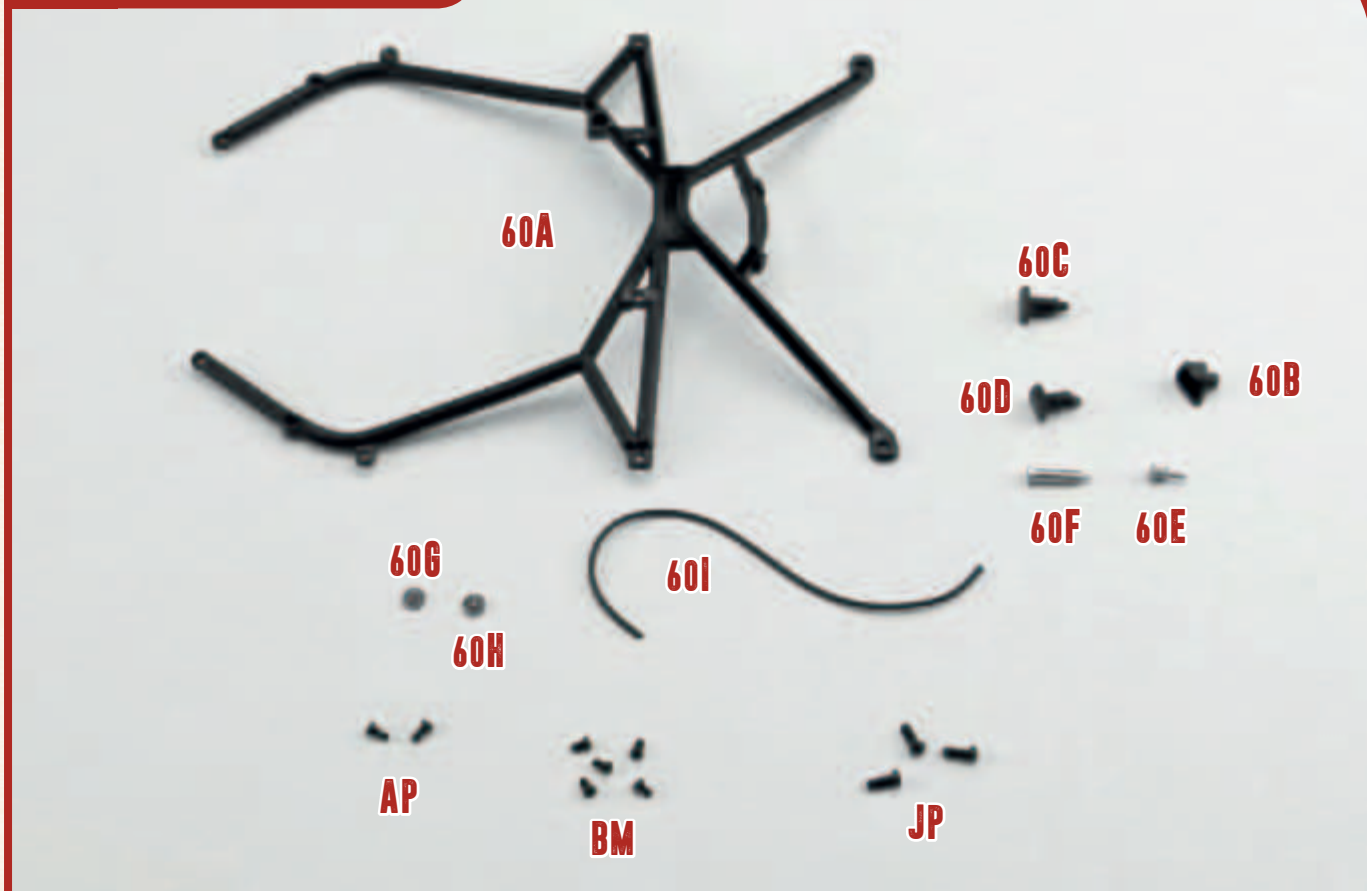
59A Panel 1
59B Panel 2

BP 11 screws (2x5mm)





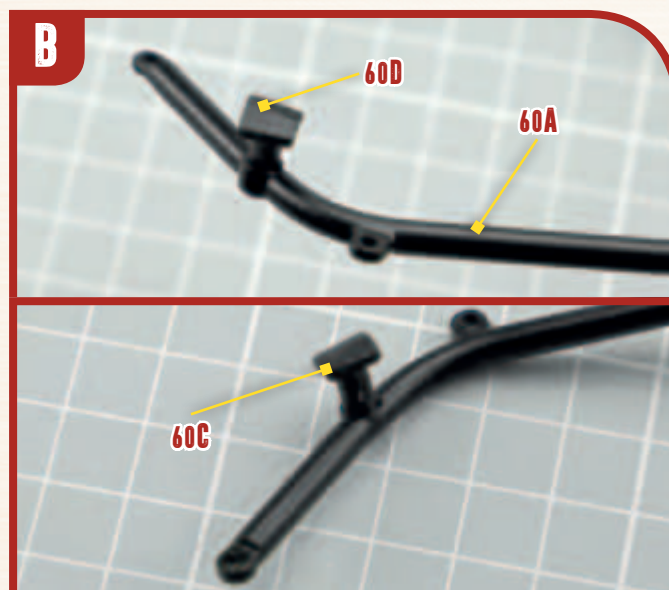
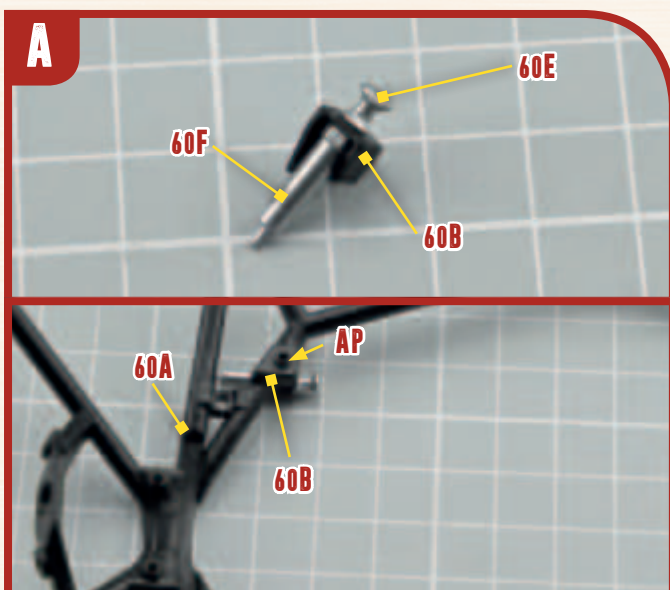
60 PARTS LIST



60A Cockpit frame
60B Detail 1
60C Detail 2
60D Detail 3
60E Detail 4

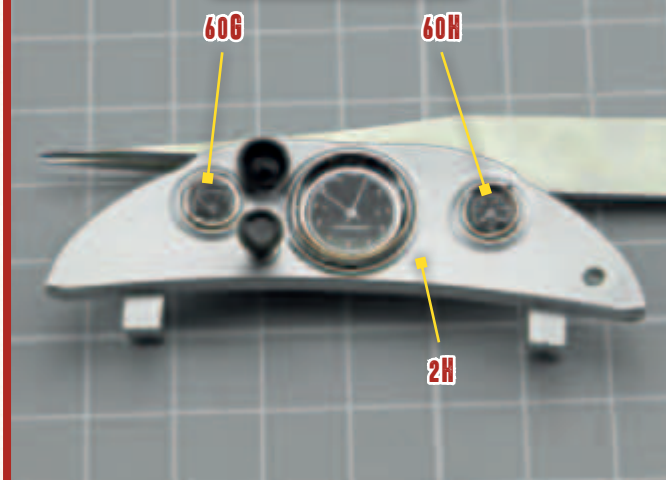
60F Detail 5
60G Oil pressure gauge
60H Water temperature gauge
60I Tube

AP 2 screws (1.7x4mm)
JP 3 screws (2.3x6mm)
BM 5 screws (1.7x3mm)



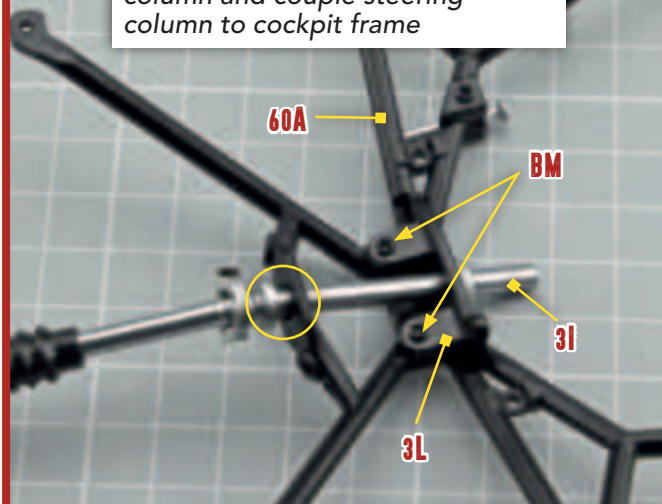
C

Replace 2J and 2K with 60G and 60H

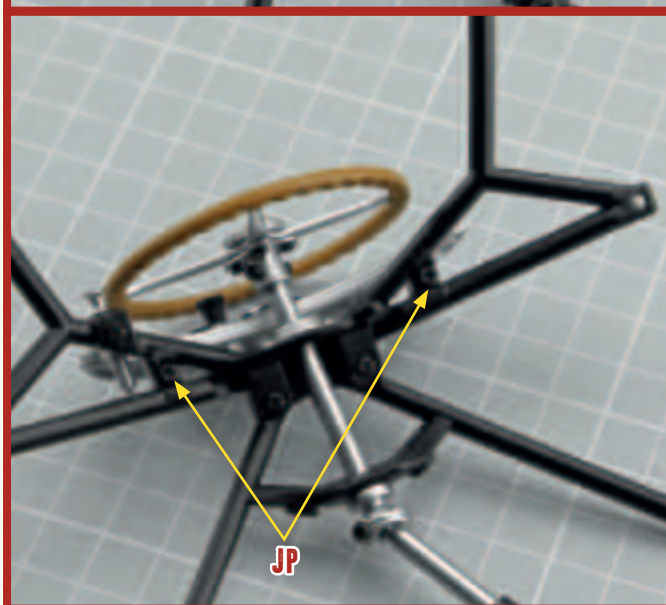
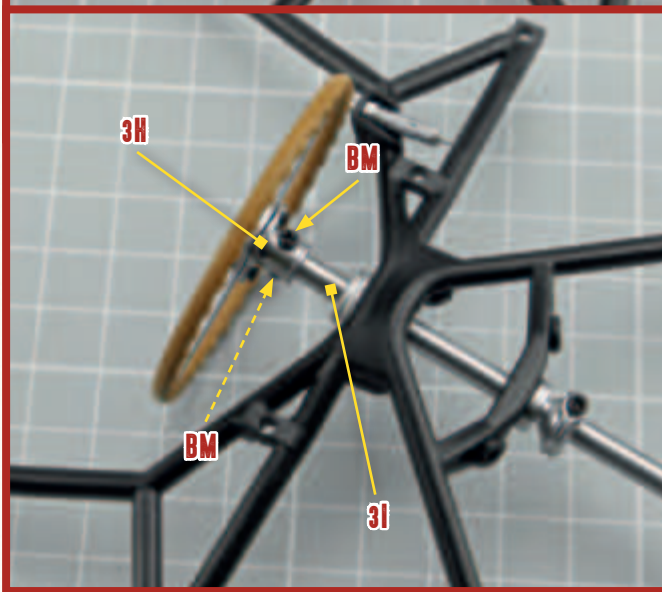
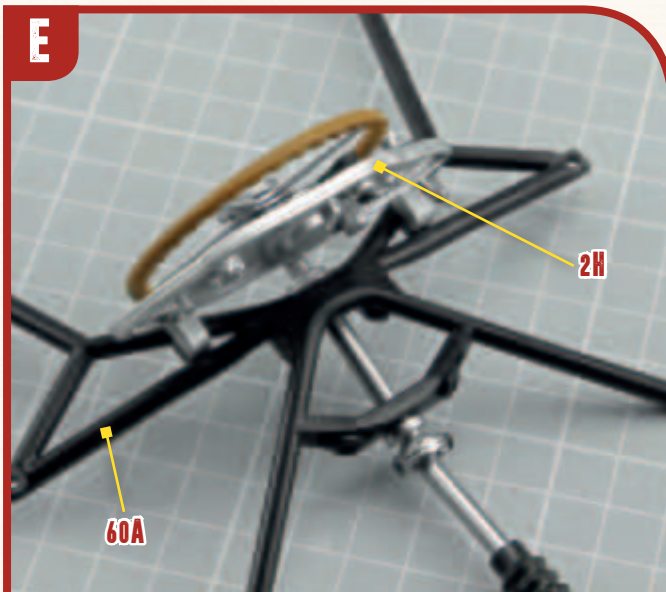


D

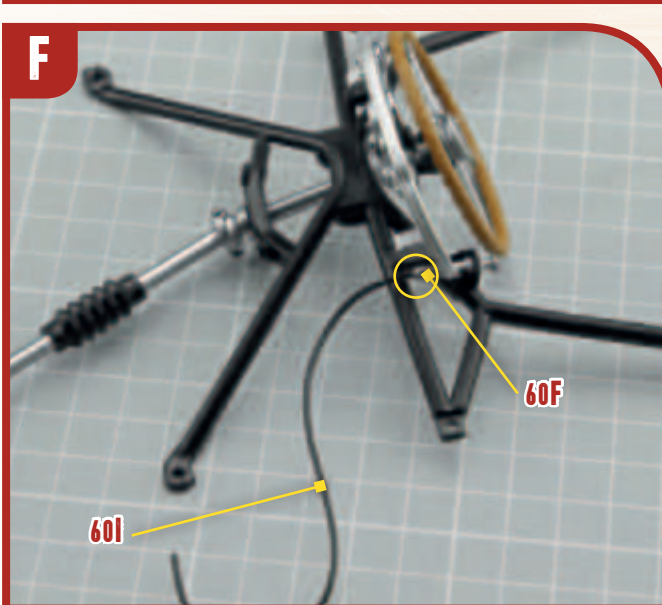
Temporarily separate steering wheel and panel 3L from steering column and couple steering column to cockpit frame



E



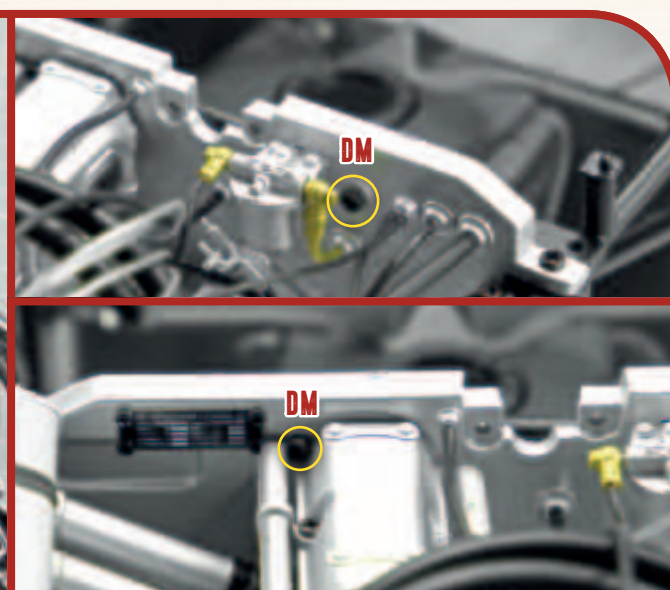
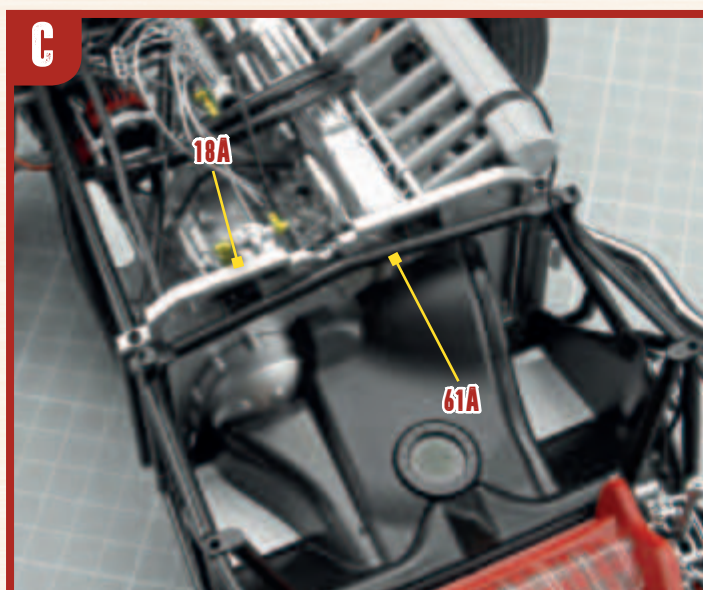
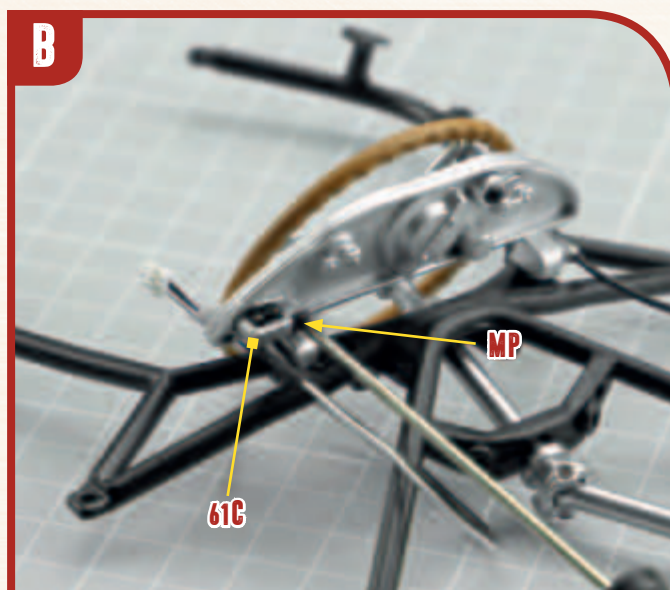
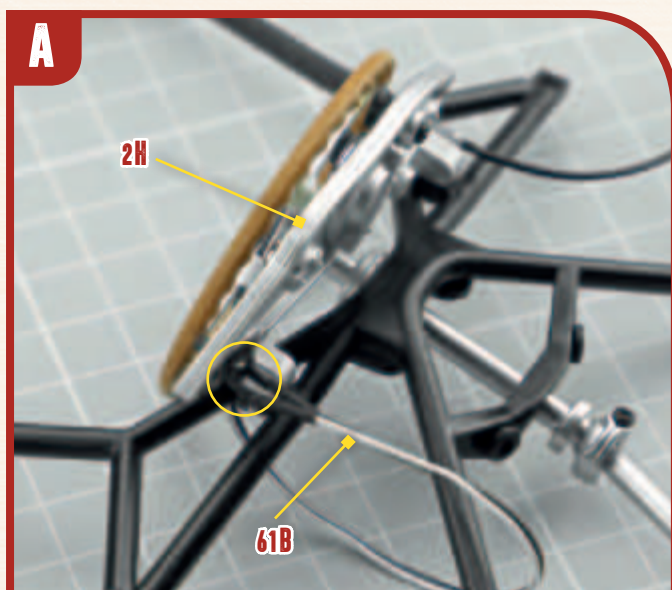
F



61 PARTS LIST

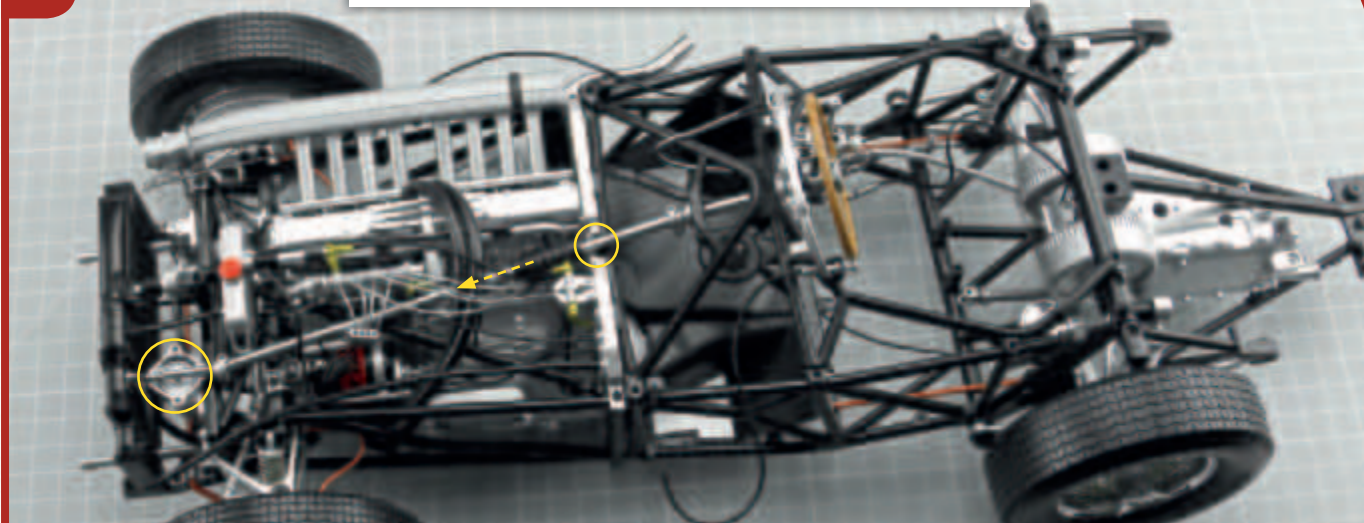


- 61A Firewall bar
- 61B Wire
- 61C Wire bracket
- 61D Steering box cover
- 61E Steering column bracket
- EP 3 screws (2x4mm)
- MP 2 screws (2x3mm)
- DM 8 screws (2x4mm)
- MM 3 screws (2x7mm)
- WM 5 screws (2x6mm)

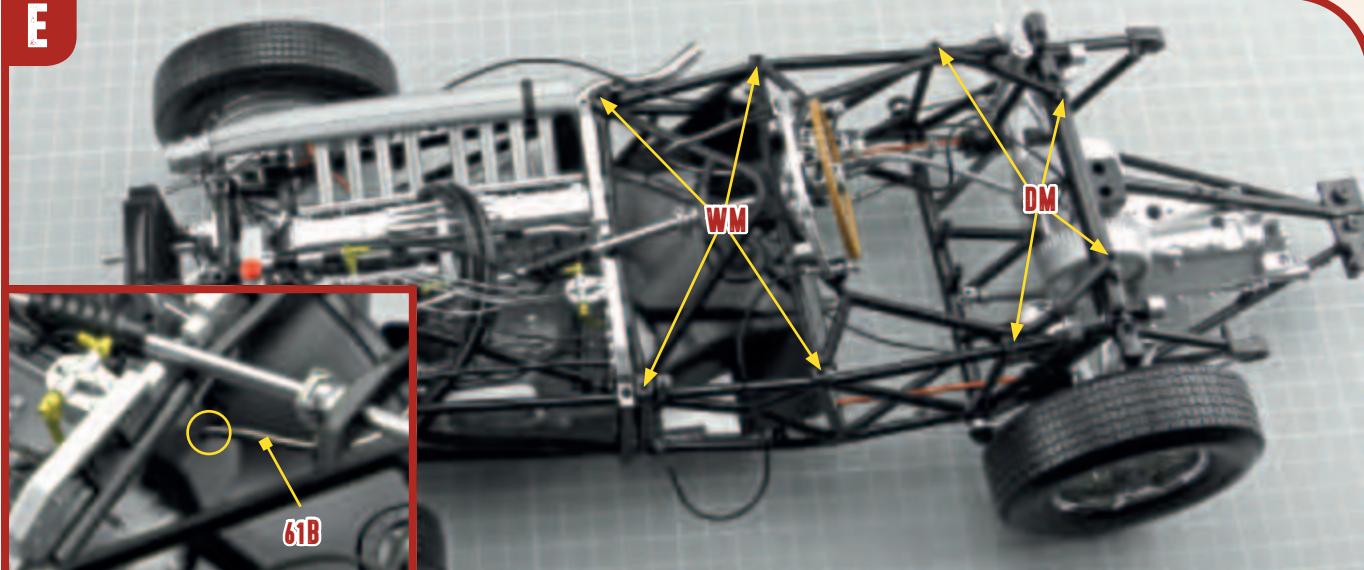


D

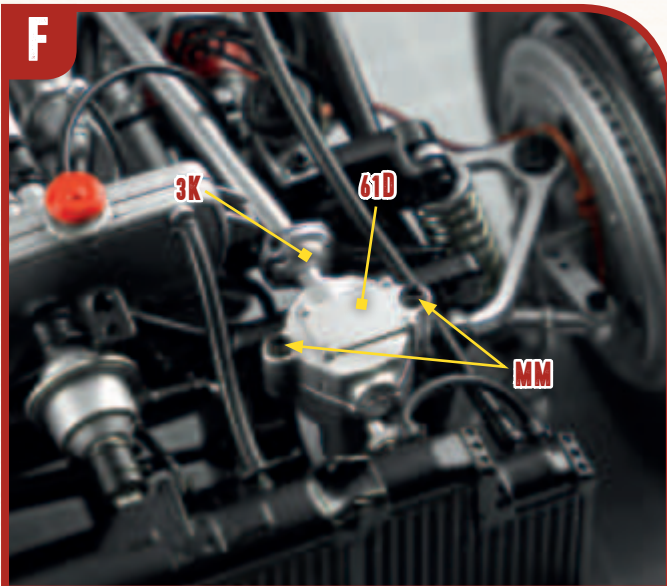
Mount cockpit frame and steering column on chassis



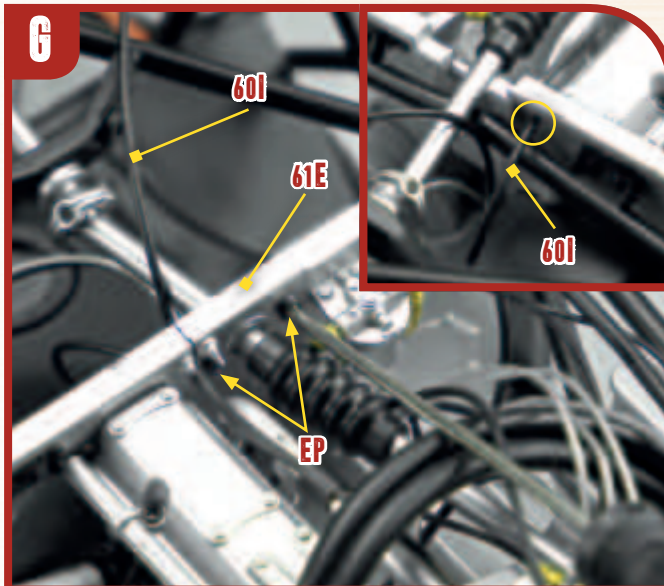
E



F

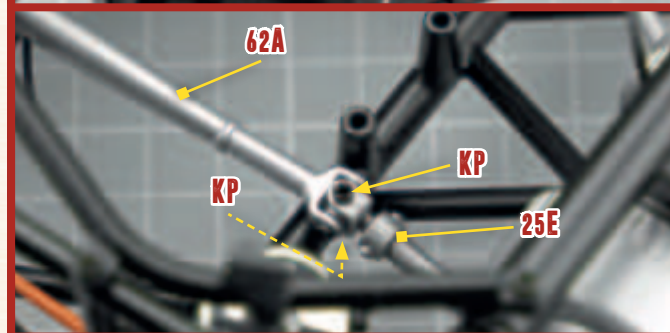
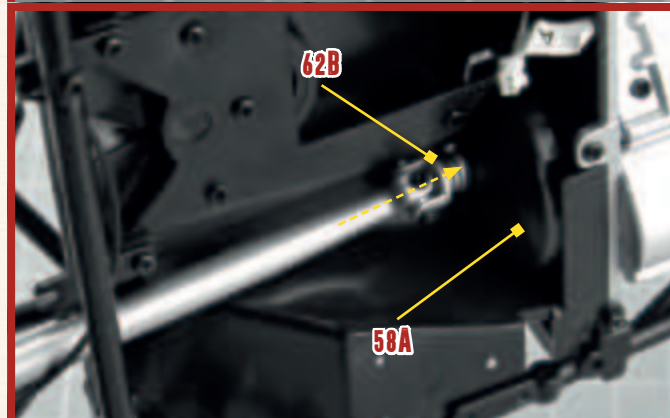
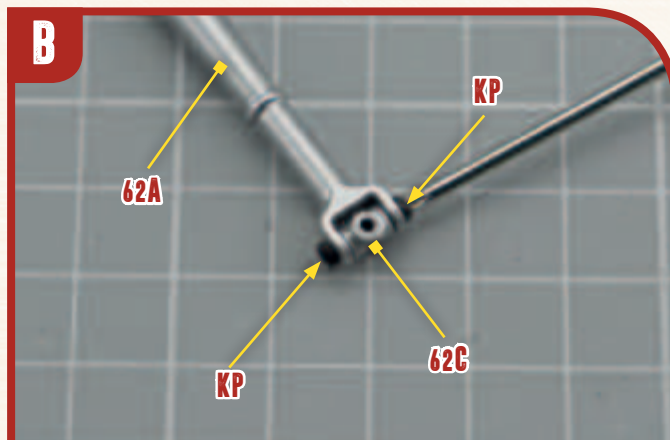
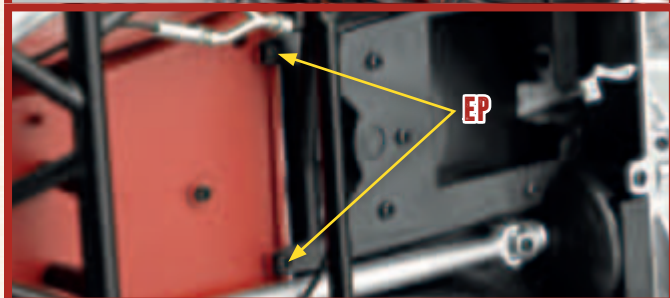
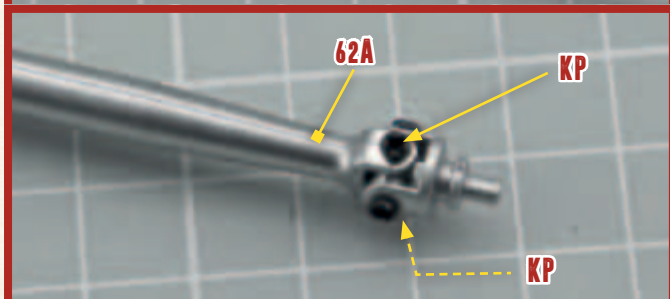
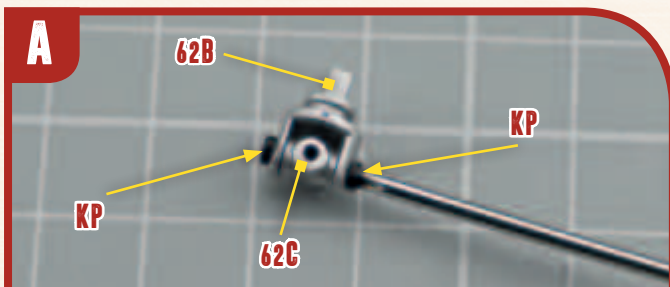
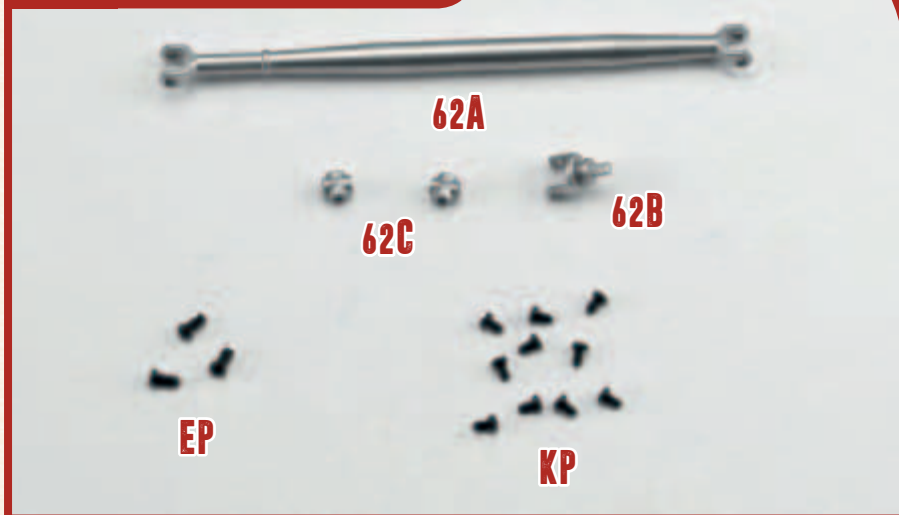


G

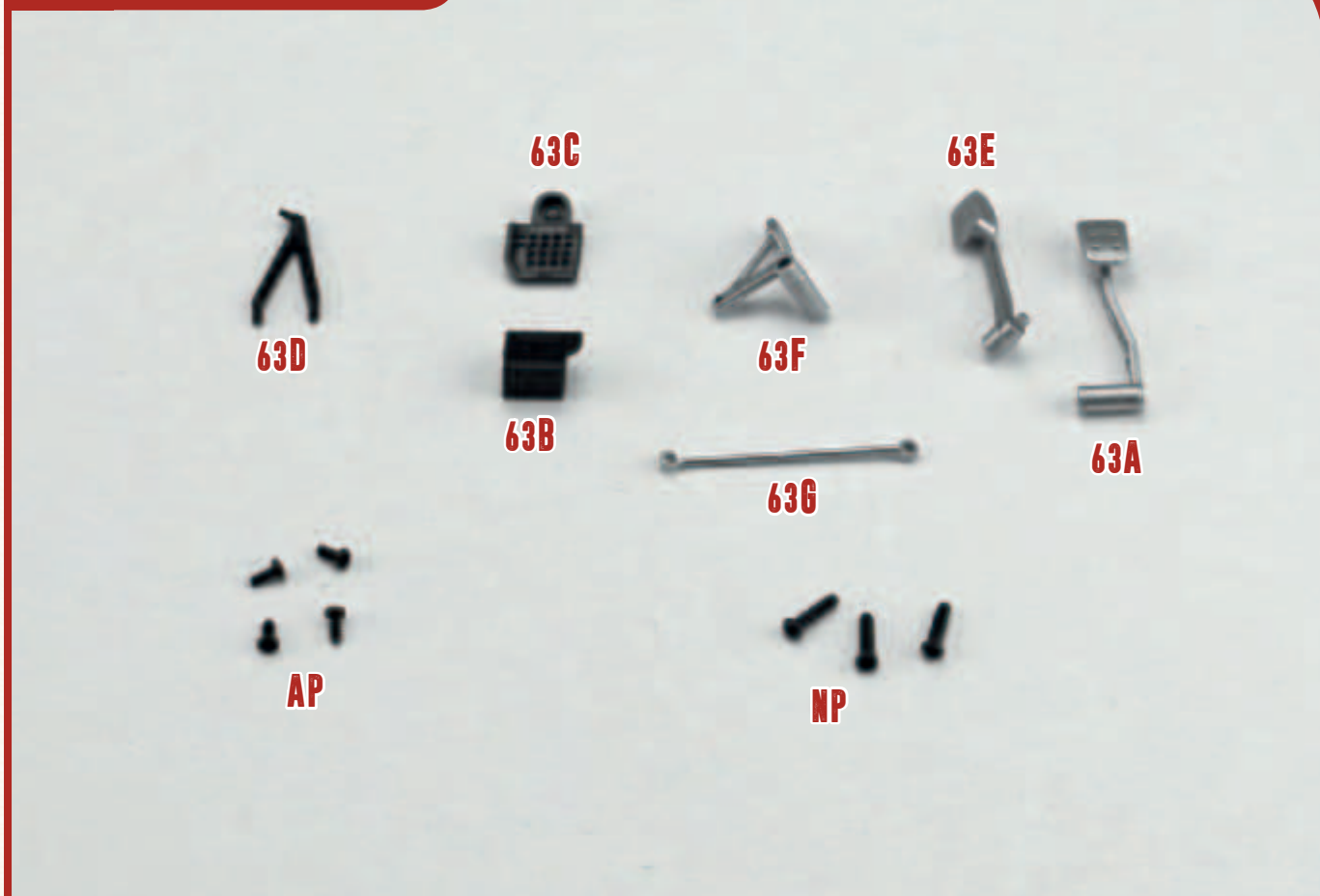


62 PARTS LIST

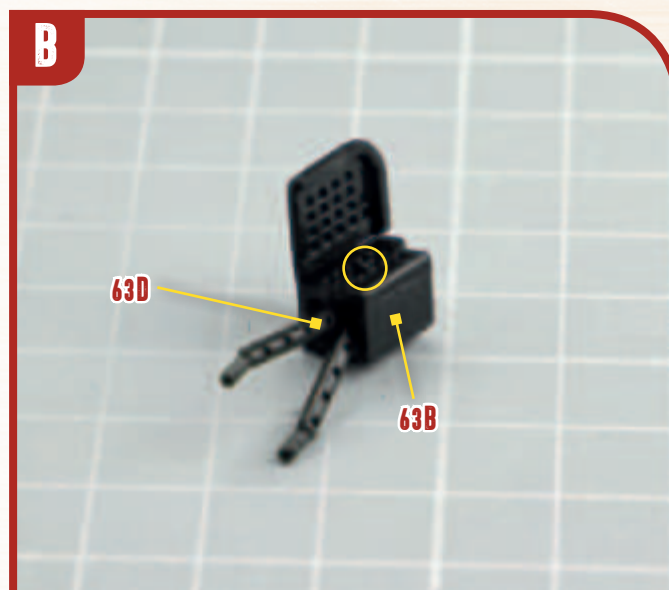
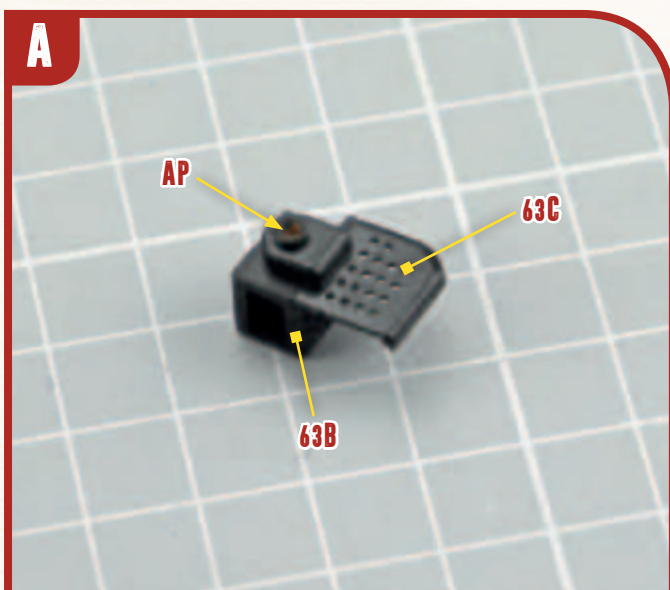
- 62A** Shaft
- 62B** Joint 1
- 62C** Joints 2 (x2)
- EP** 3 screws (2x4mm)
- KP** 10 screws (1.7x3mm)

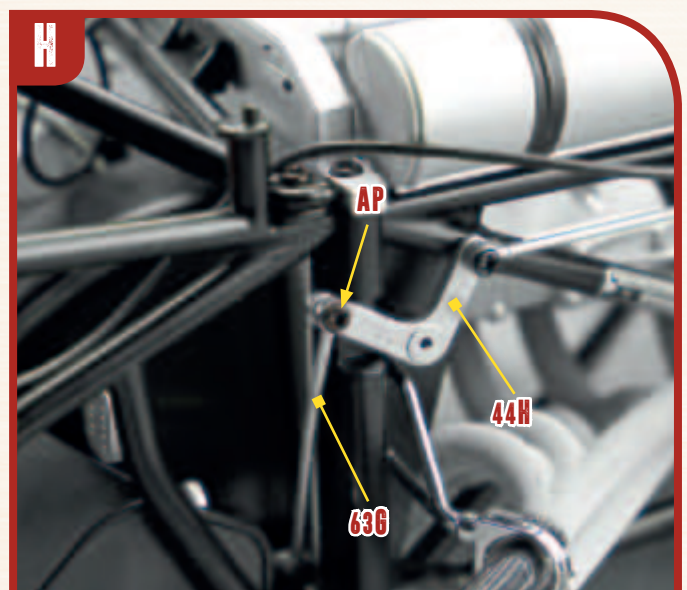
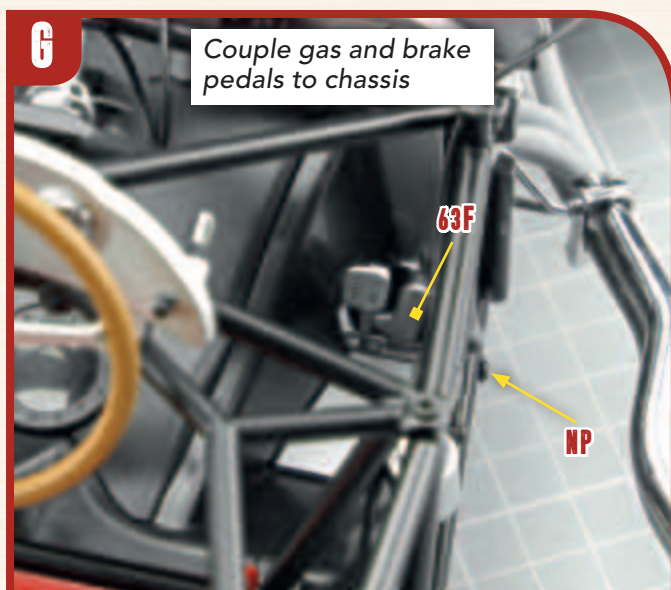
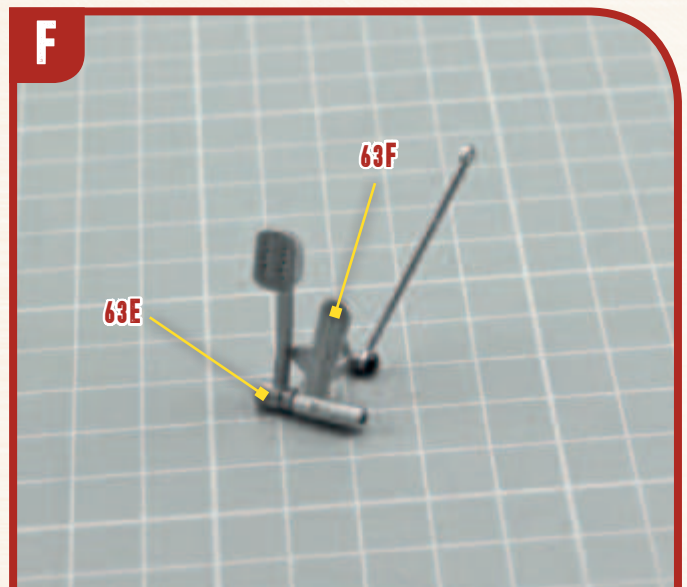
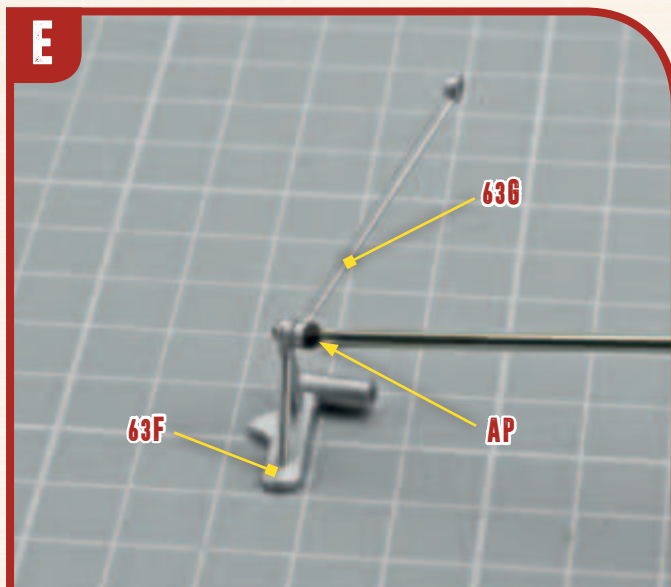
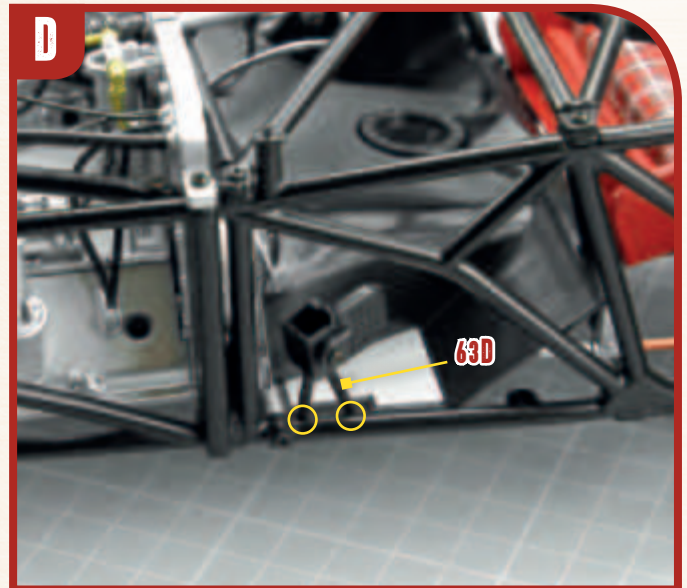
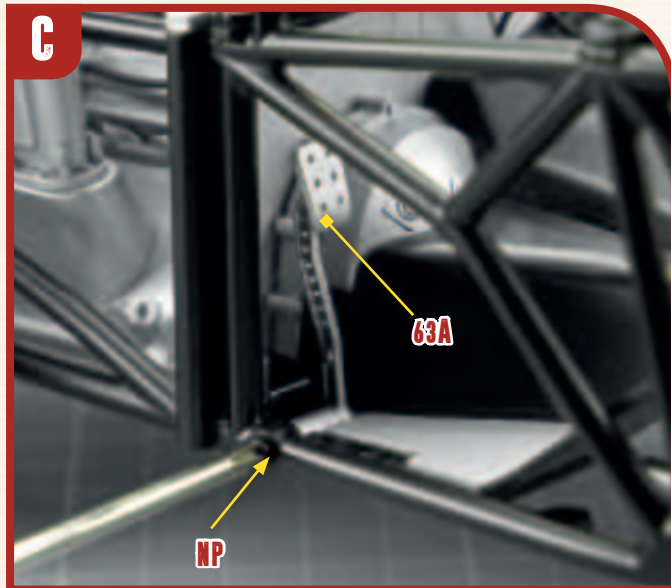


63 PARTS LIST



- | | | |
|----------------------------|----------------------------|------------------------------|
| 63A Clutch pedal | 63E Brake pedal | AP 4 screws (1.7x4mm) |
| 63B Footrest part A | 63F Gas pedal | NP 3 screws (2x8mm) |
| 63C Footrest part B | 63G Gas pedal shaft | |
| 63D Footrest part C | | |

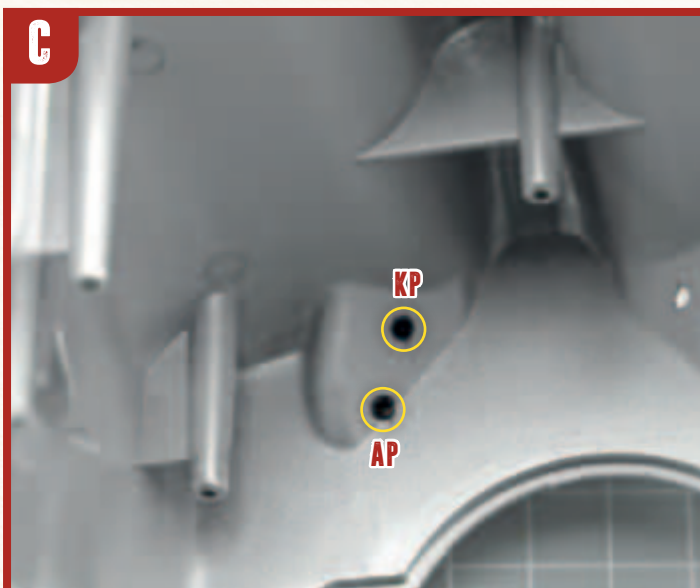




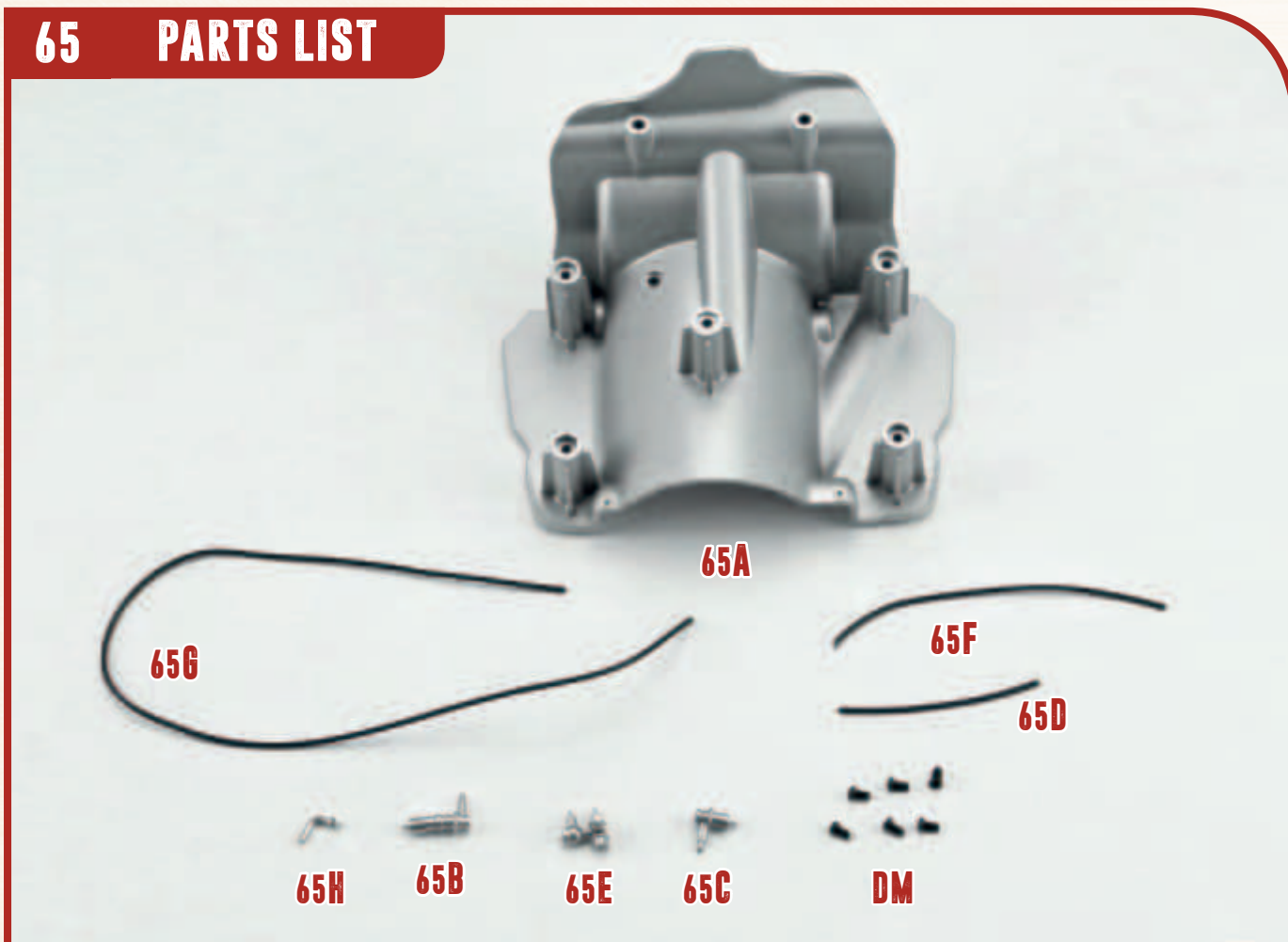
64 PARTS LIST

- 64A** Fuel tank body
- 64B** Cap
- 64C** Fuel tank detail 1 (R)
- 64D** Fuel tank detail 2 (L)

- AP** 3 screws (1.7x4mm)
- KP** 3 screws (1.7x3mm)



65 PARTS LIST



65A Fuel tank bottom

65B Detail 1

65C Detail 2

65D Fuel line 5

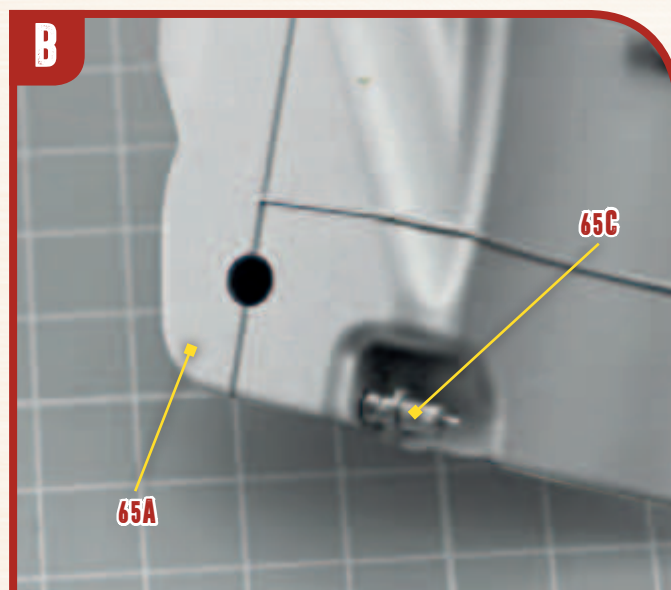
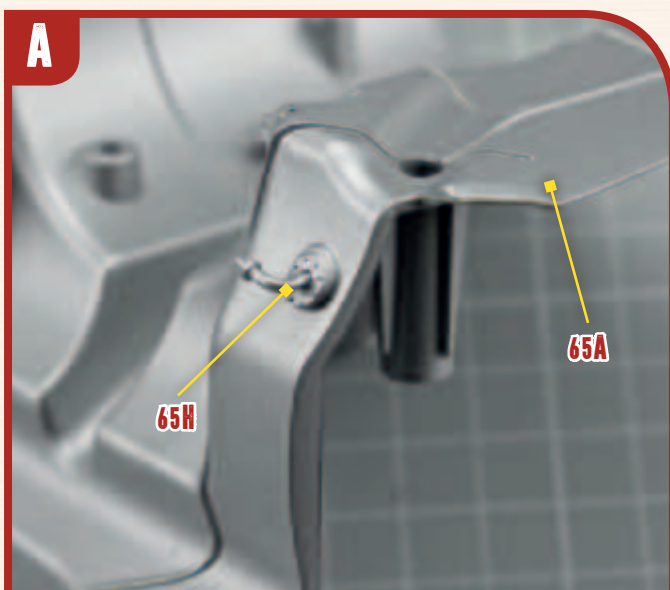
65E Detail 3

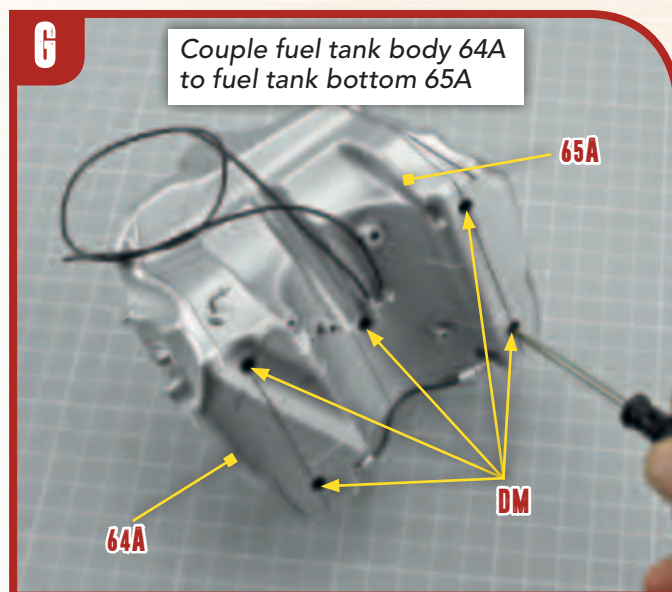
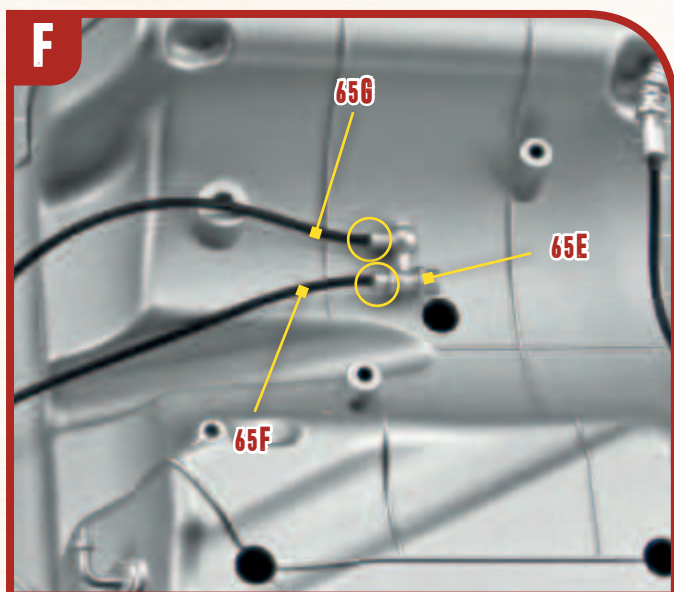
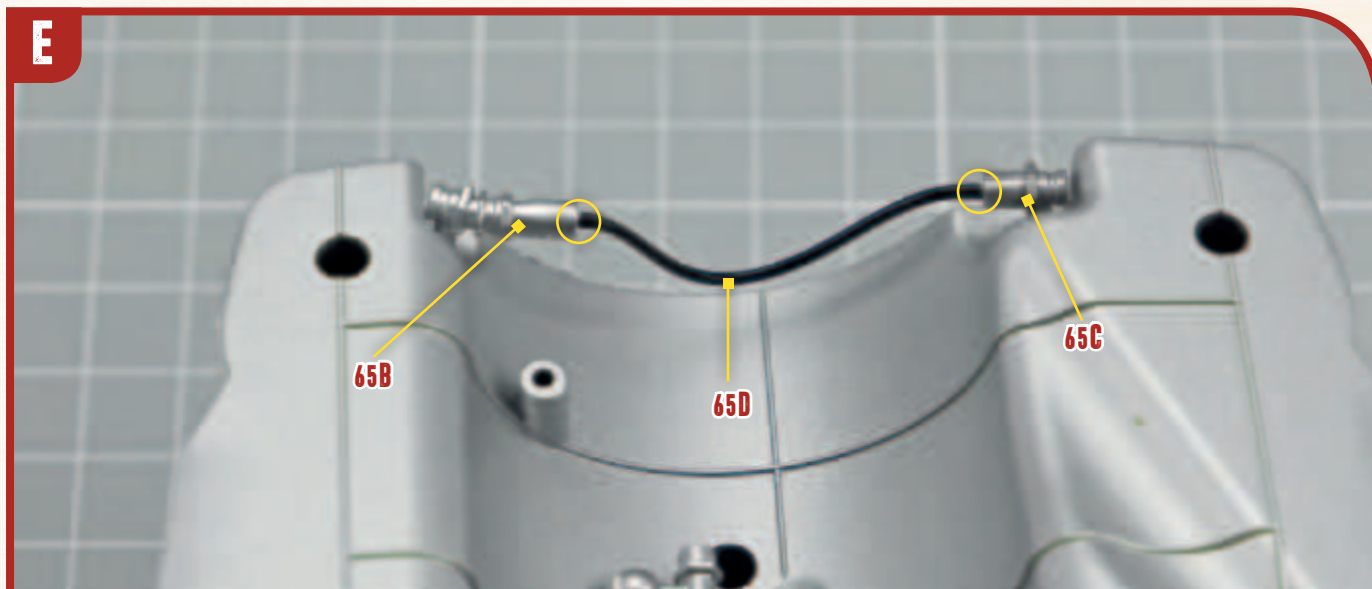
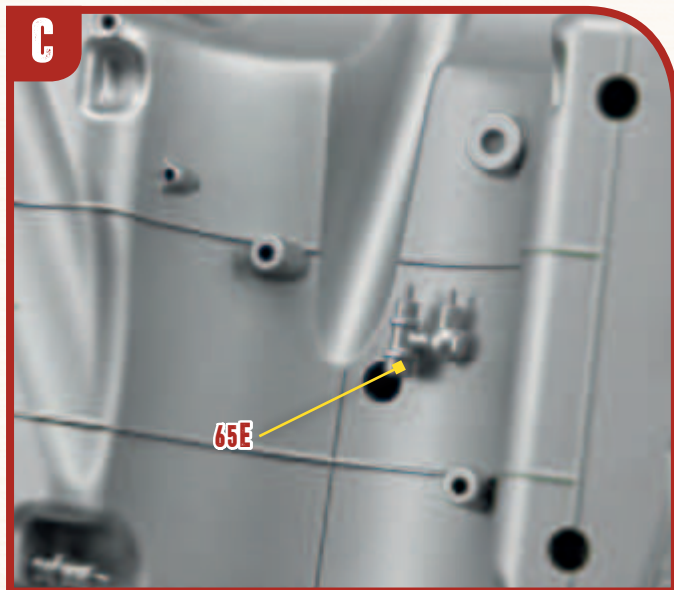
65F Fuel line 6

65G Fuel line 7

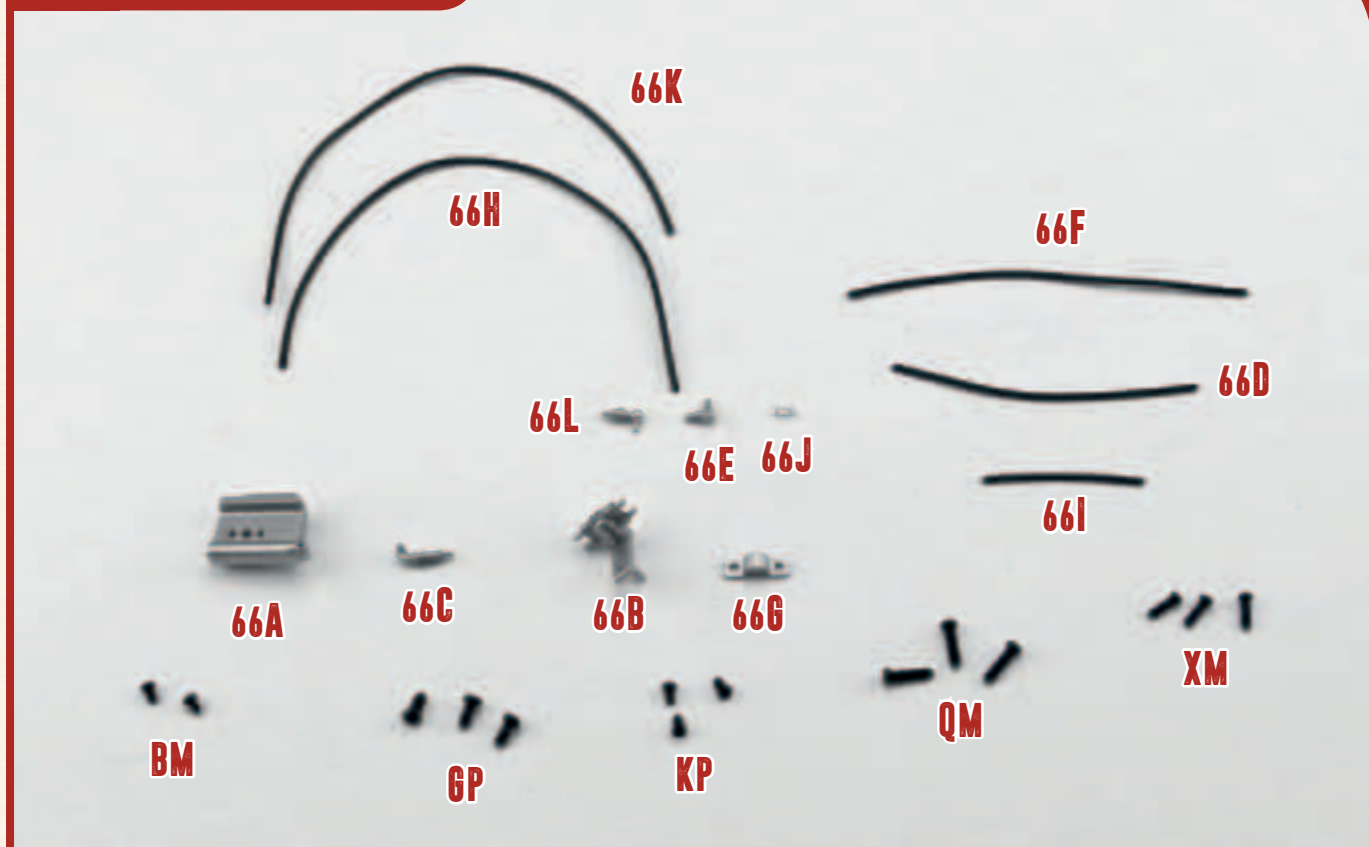
65H Detail 4

DM 6 screws (2x4mm)

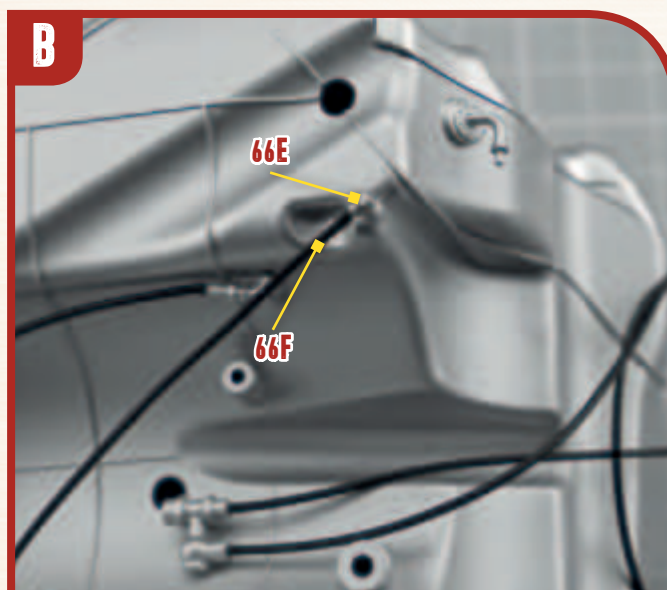
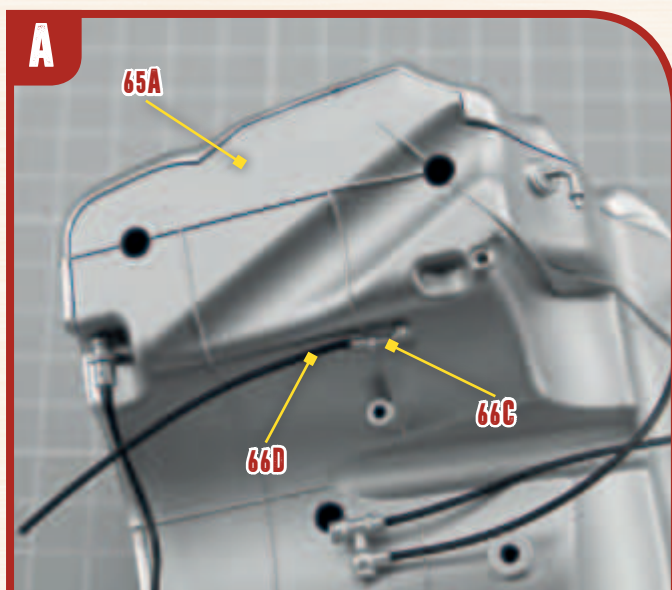


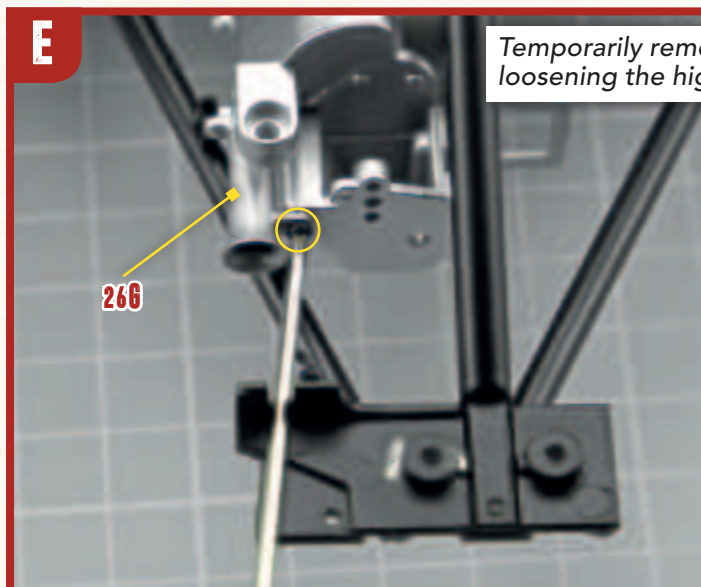
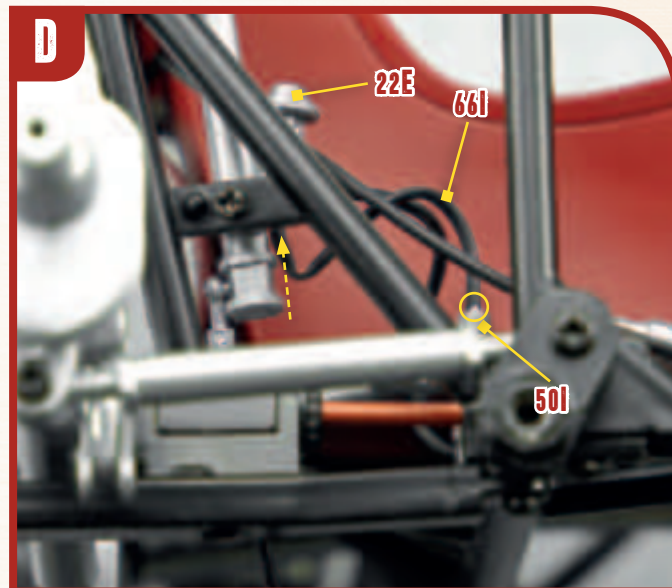
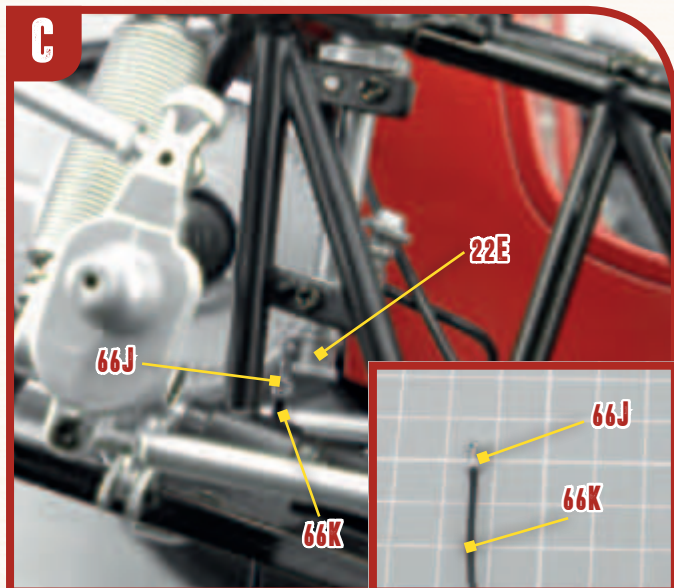


66 PARTS LIST

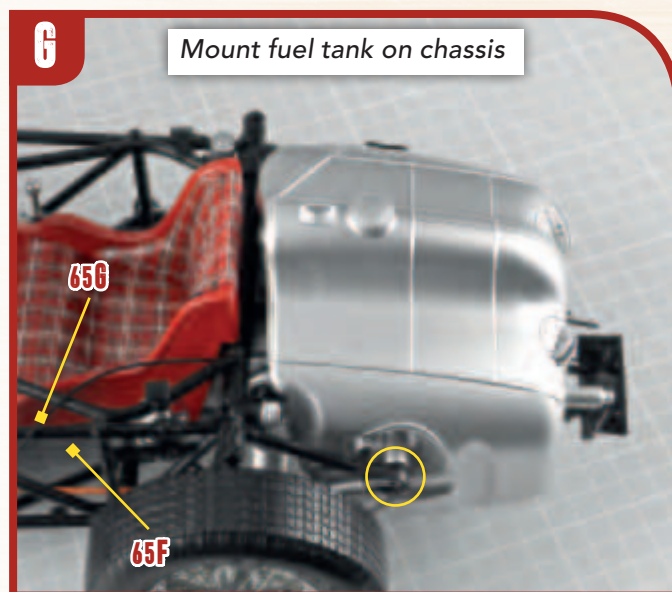
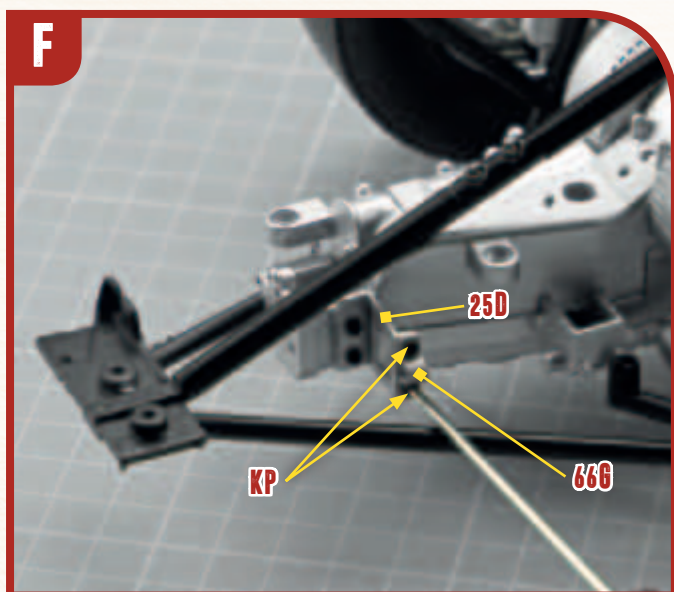
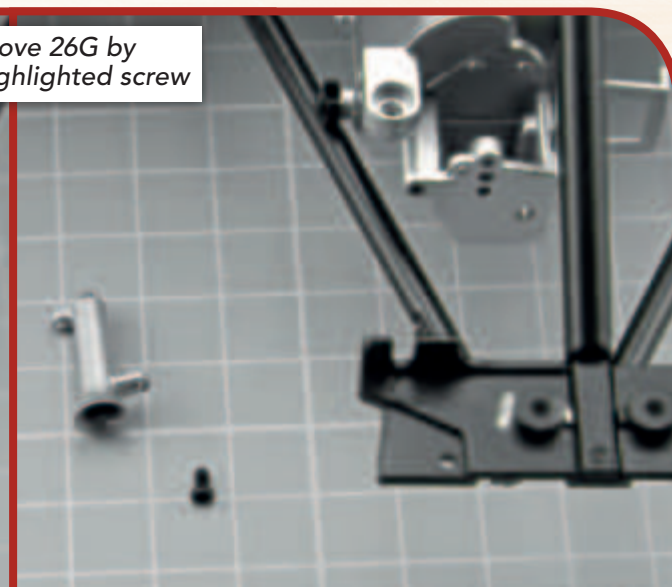


- | | | | | | |
|------------|--------------------|------------|--------------|-----------|--------------------|
| 66A | Gearbox rear cover | 66G | Bracket | GP | 3 screws (2.3x5mm) |
| 66B | Fuel distributor | 66H | Fuel line 10 | KP | 3 screws (1.7x3mm) |
| 66C | Detail 1 | 66I | Fuel line 11 | BM | 2 screws (1.7x3mm) |
| 66D | Fuel line 8 | 66J | Detail 3 | QM | 3 screws (2x8mm) |
| 66E | Detail 2 | 66K | Fuel line 12 | XM | 3 screws (1.5x6mm) |
| 66F | Fuel line 9 | | | | |

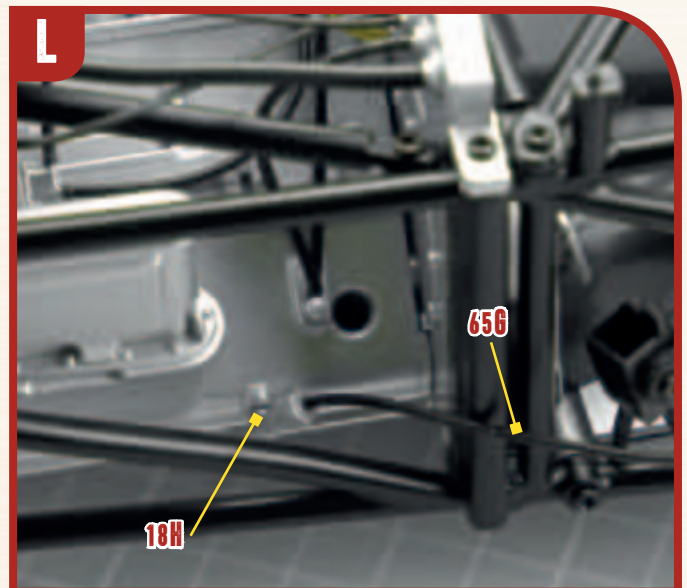
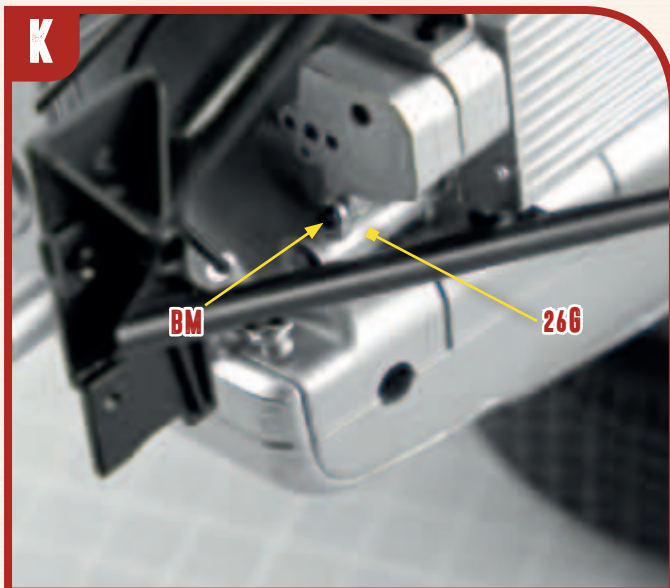
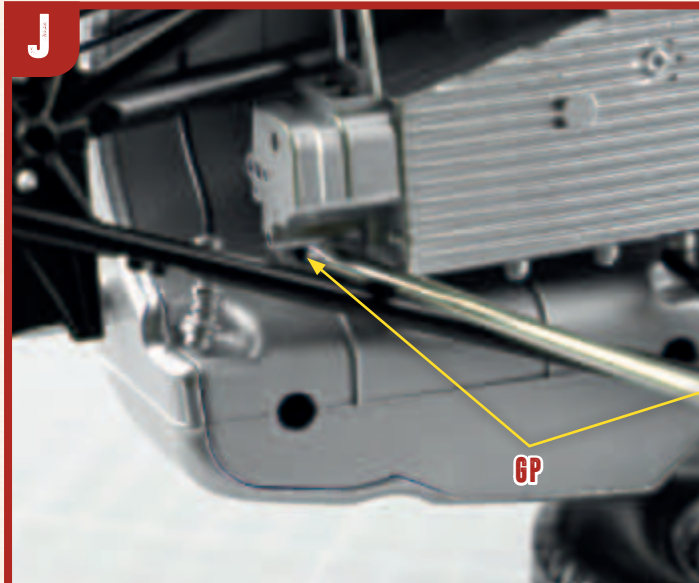
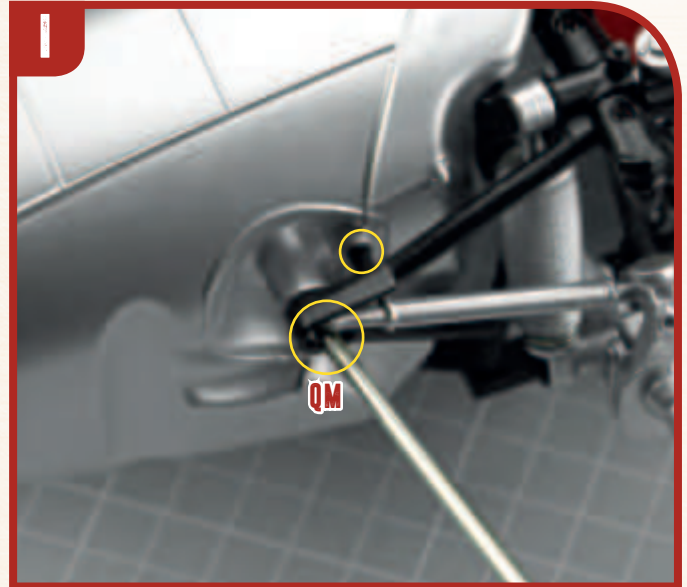
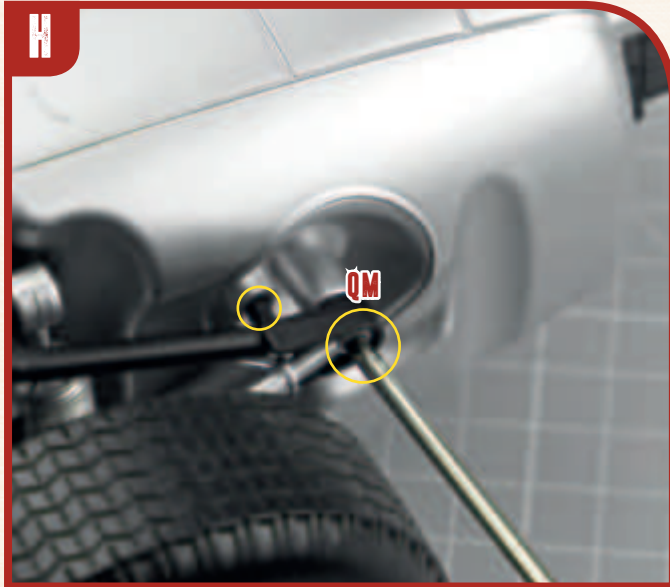


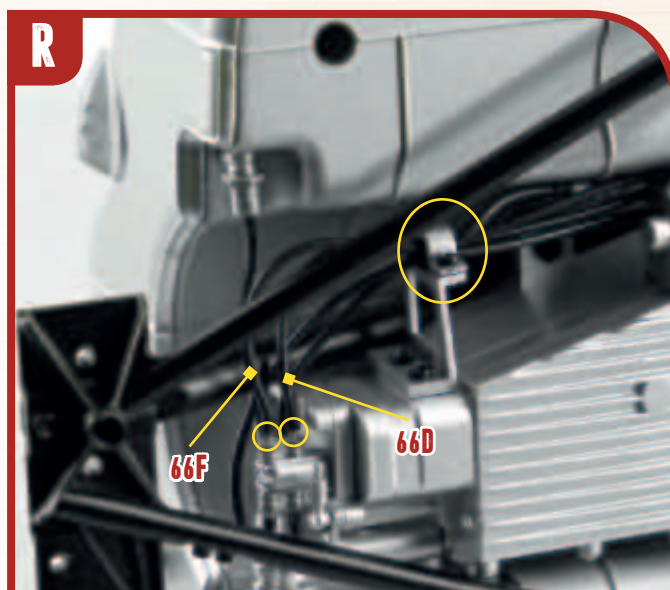
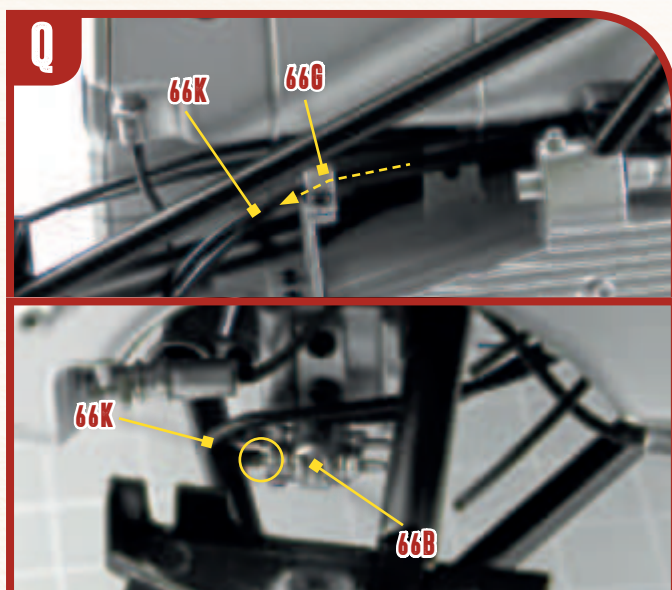
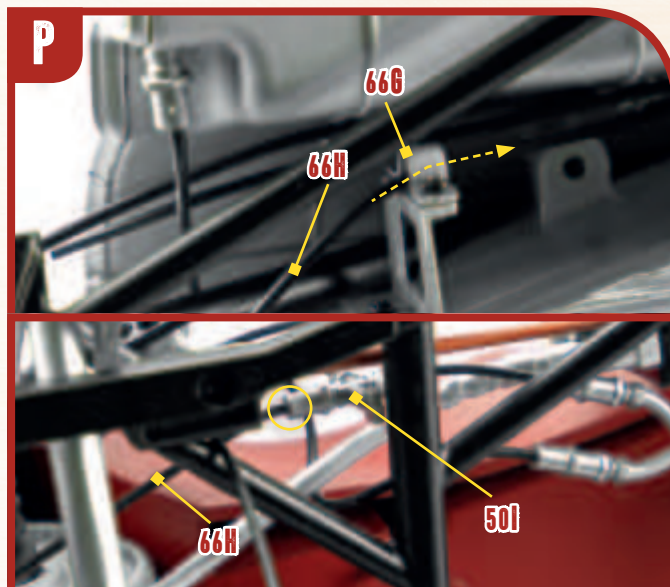
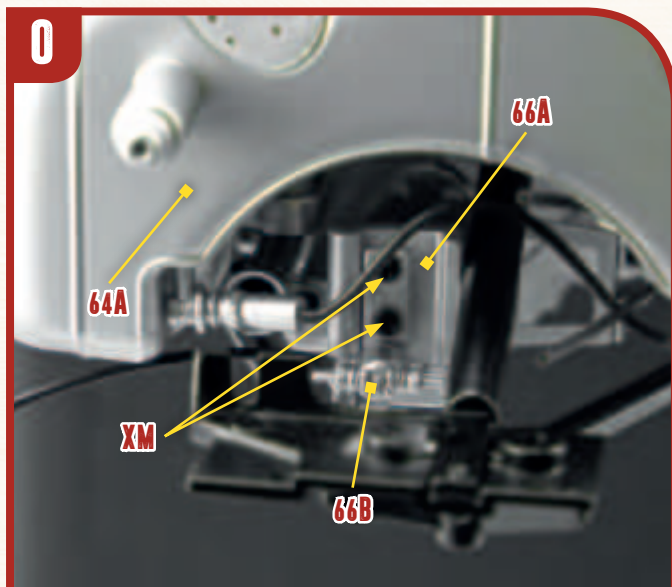
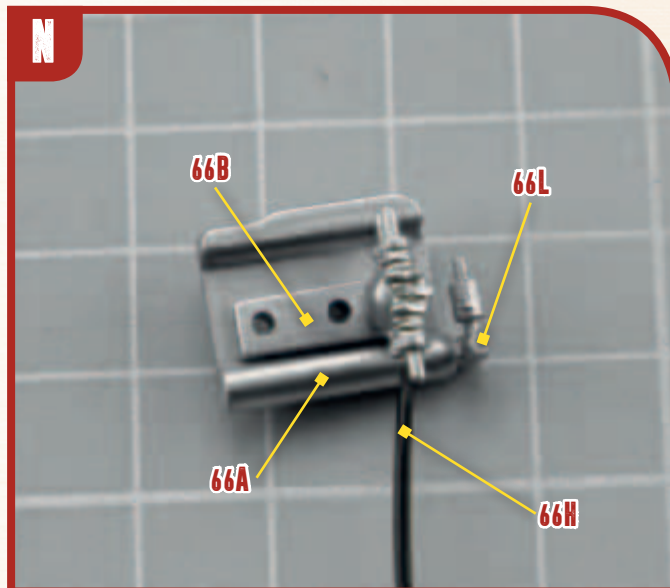
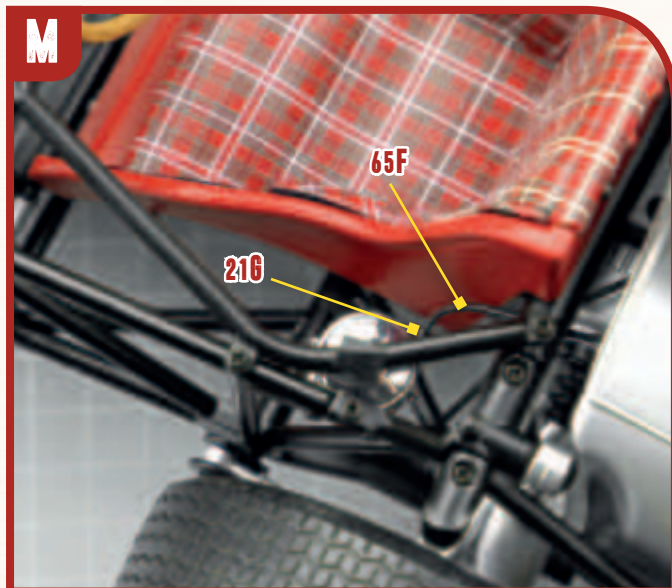


Temporarily remove 26G by loosening the highlighted screw



Mount fuel tank on chassis





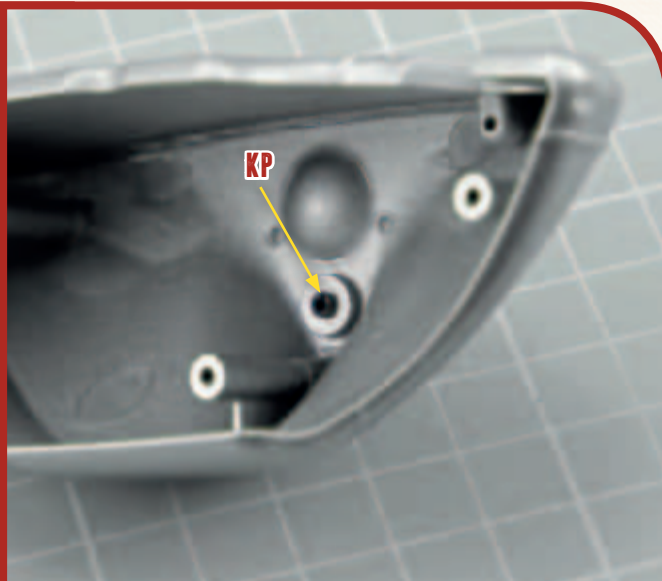
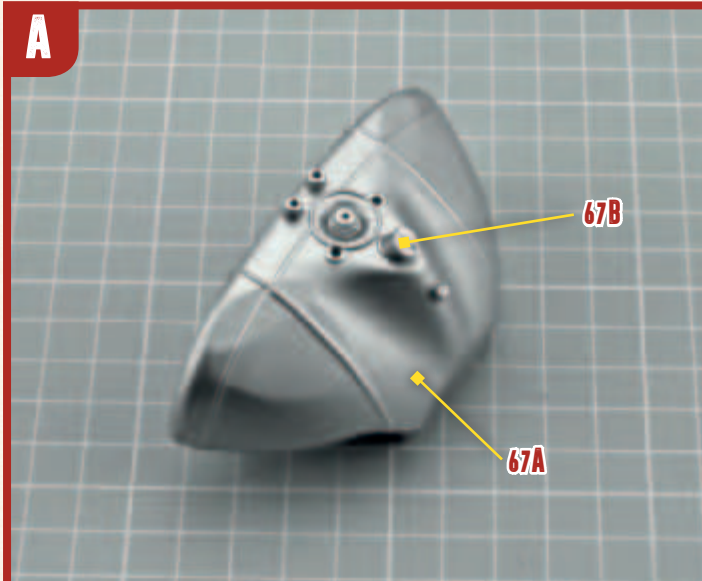
67 PARTS LIST



67A Oil tank body
67B Filler cap
67C Oil tank bottom
67D Bracket

AP 3 screws (1.7x4mm)
BP 4 screws (2x5mm)
KP 2 screws (1.7x3mm)

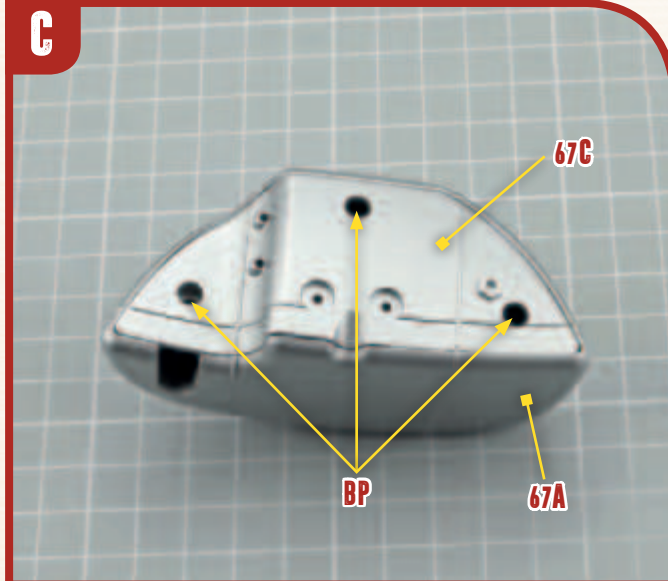
A



B



C



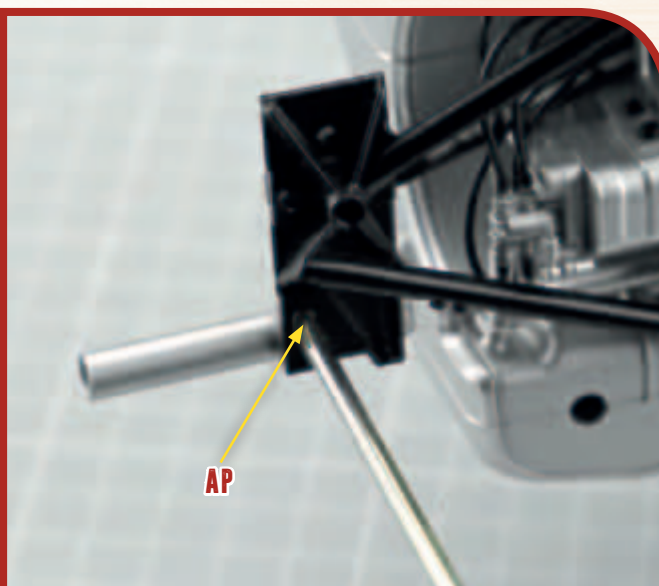
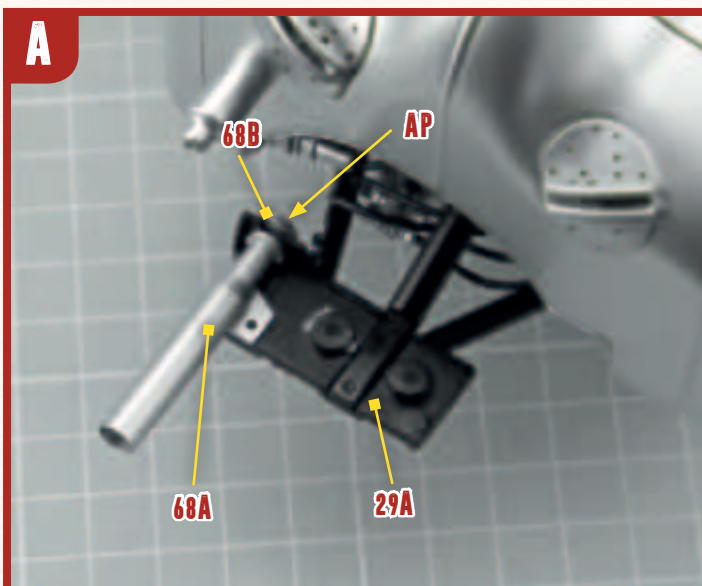
68 PARTS LIST

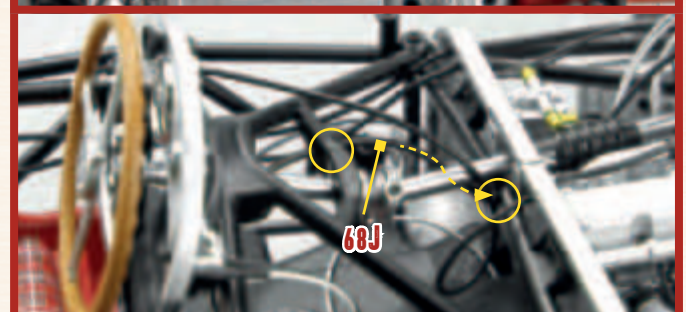
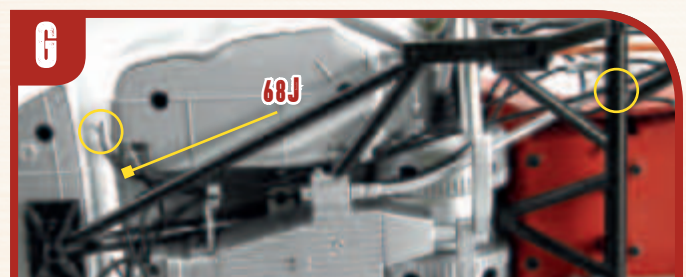
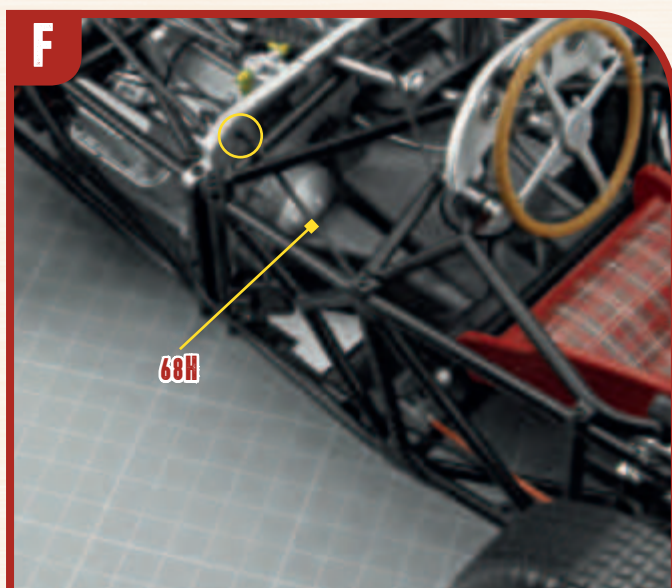
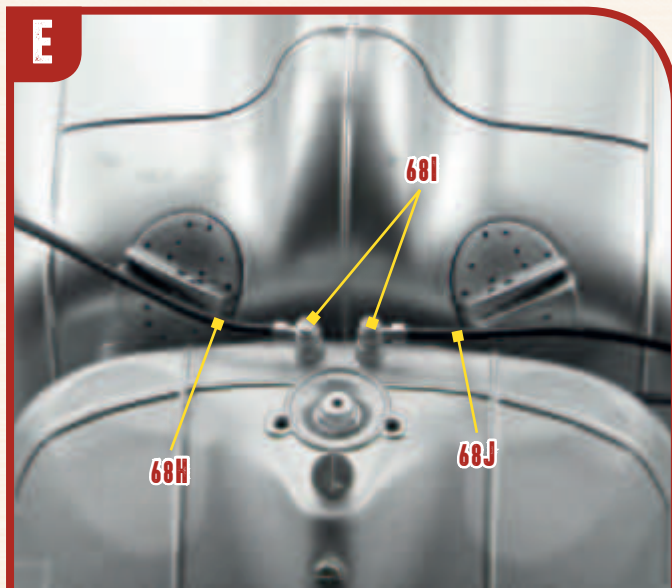
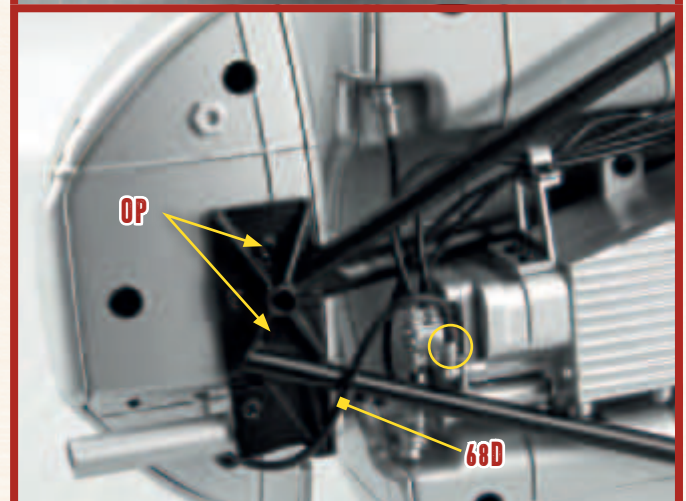
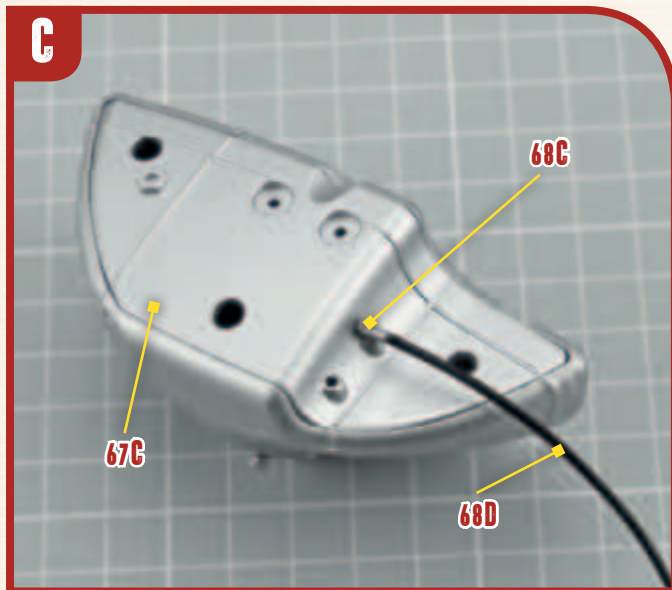


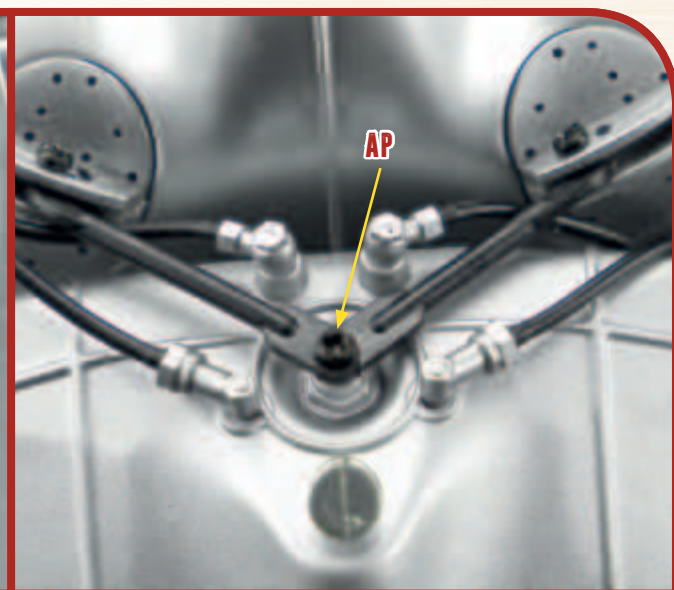
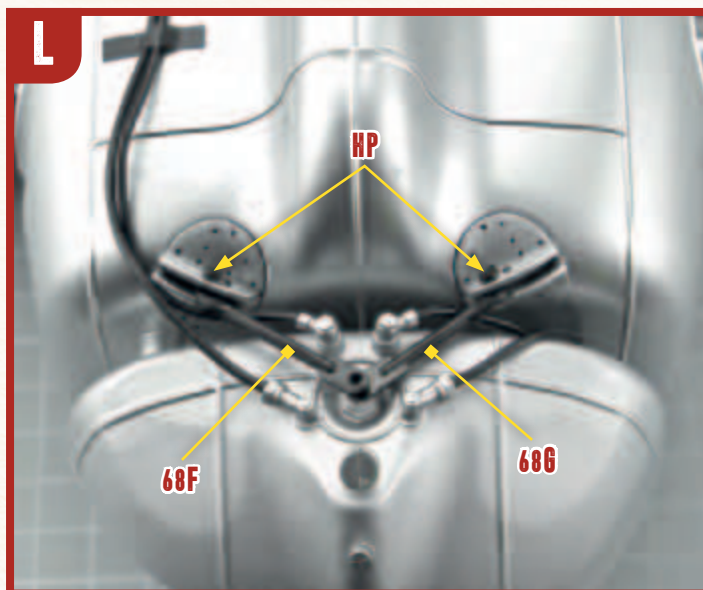
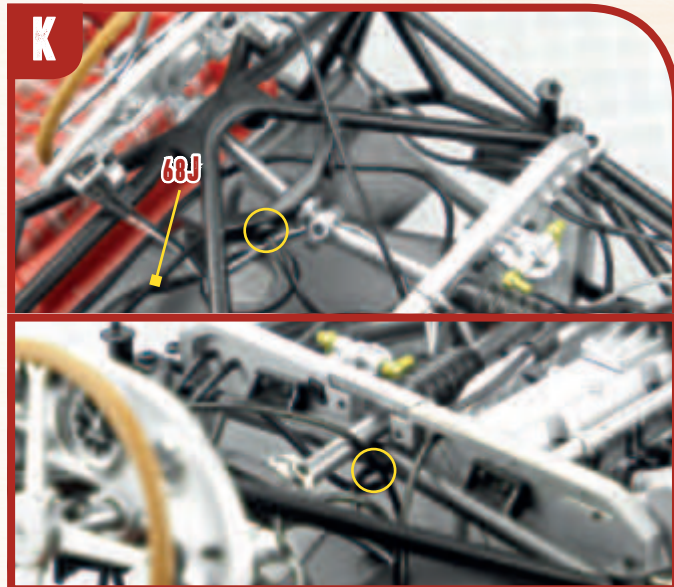
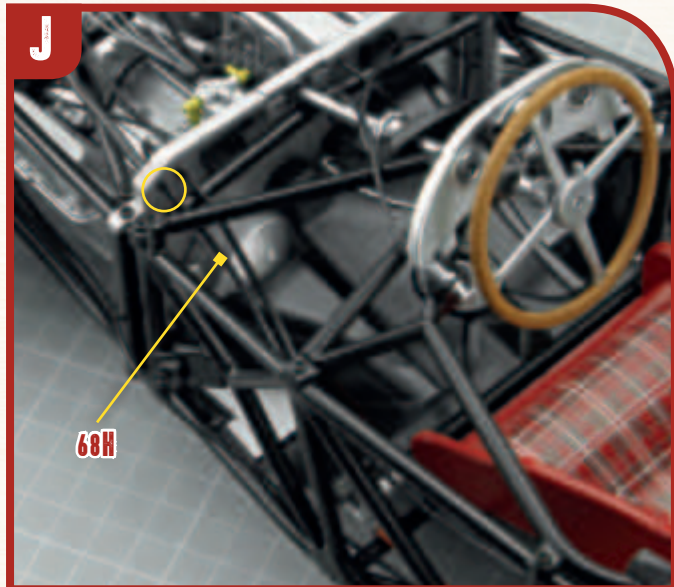
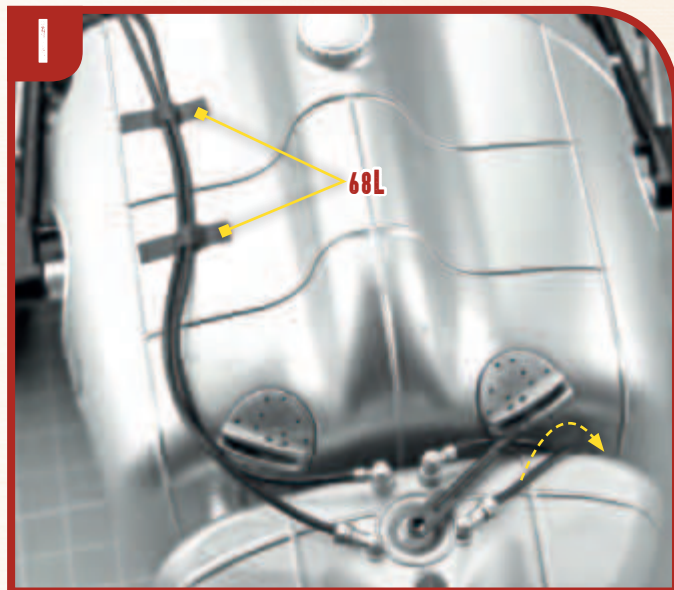
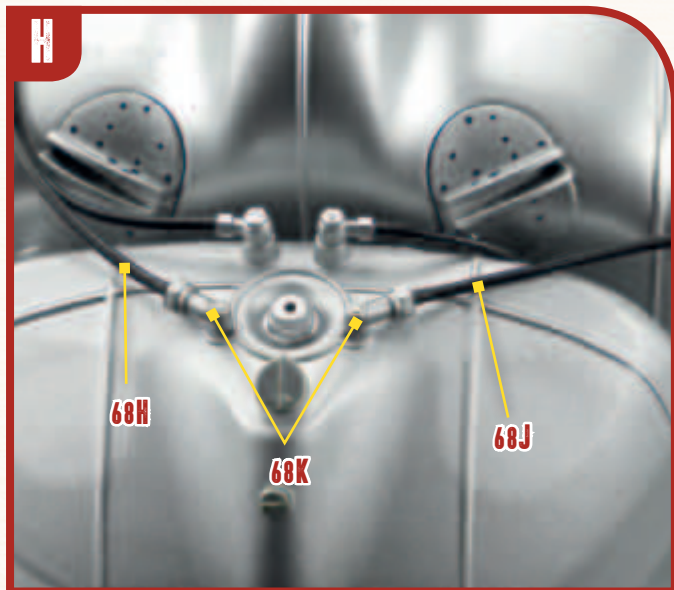
68A Shaft part A
68B Shaft part B
68C Detail 1
68D Tube 1
68E Detail 2
68F Bracket 1 (L)

68G Bracket 2 (R)
68H Tubes 2 (x2)
68I Details 3 (x2)
68J Tubes 3 (x2)
68K Details 4 (x2)
68L Tapes (x2)

AP 4 screws (1.7x4mm)
HP 3 screws (1.7x5mm)
OP 3 screws (2x7mm)







69 PARTS LIST

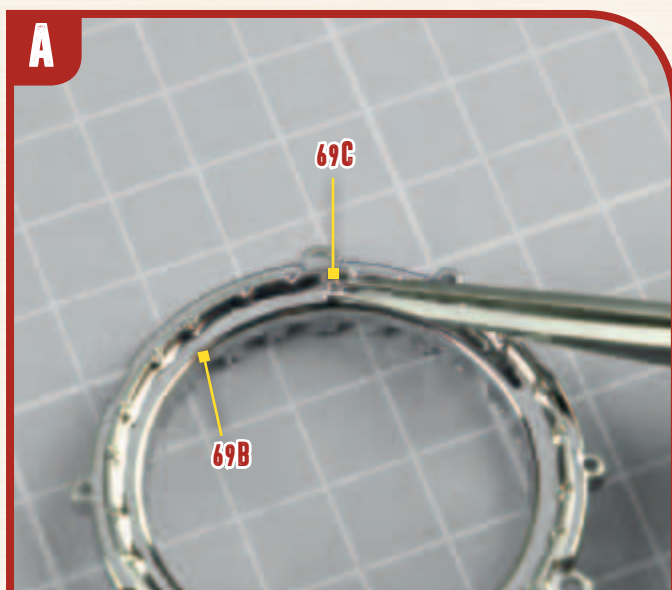
REGULAR ASSEMBLY



69A Outer rim
69B Central ring 1
69C Inflation valve
69D Hub 1

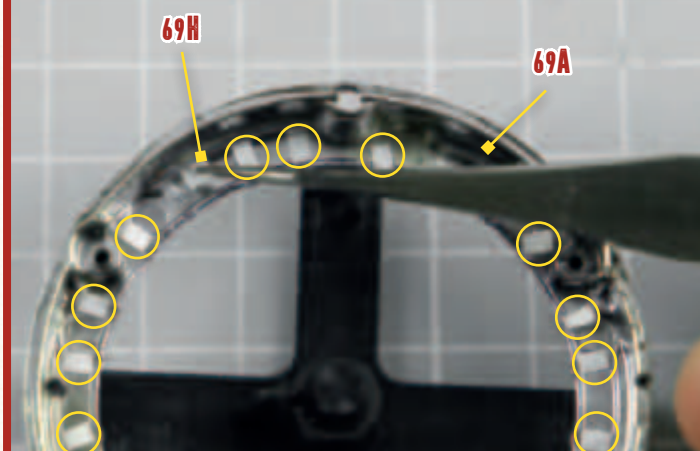
69E Spokes 1
69F Spokes 2
69G Central ring 2
69H Double-sided tape

AP 5 screws (1.7x4mm)
CM 4 screws (1.7x4mm)

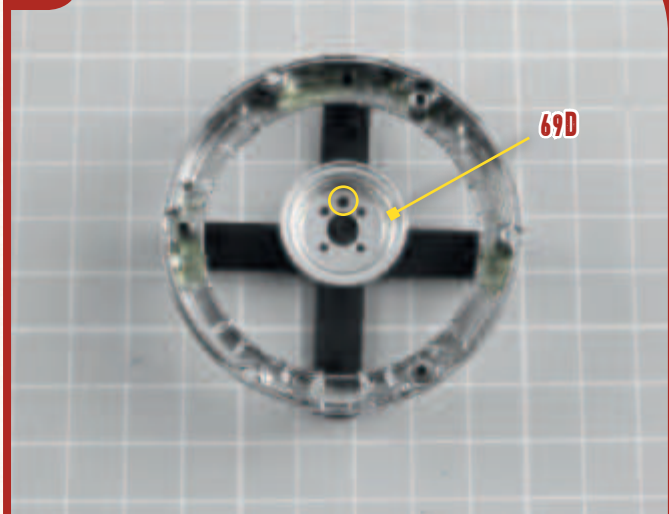


C

Apply 24 pieces of double-sided tape 69H to 69A's inner profile and tear off their top sheets.

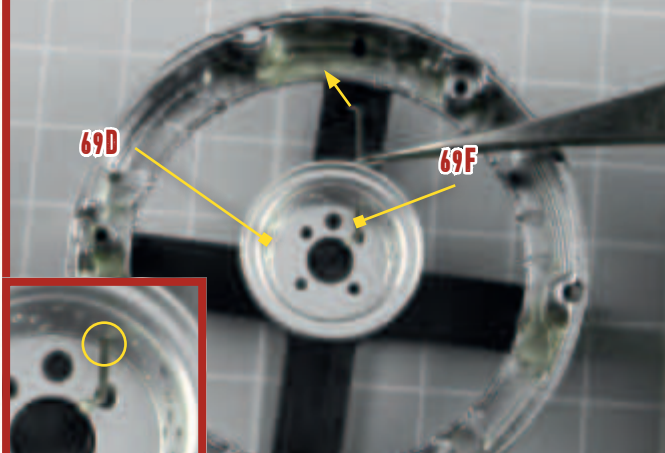


D



E

Insert 1 spoke 69F through a hole in 69D's first level (counting from the bottom).



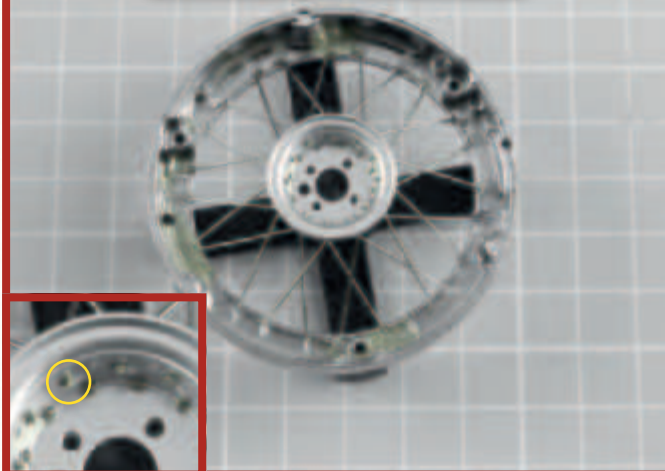
F

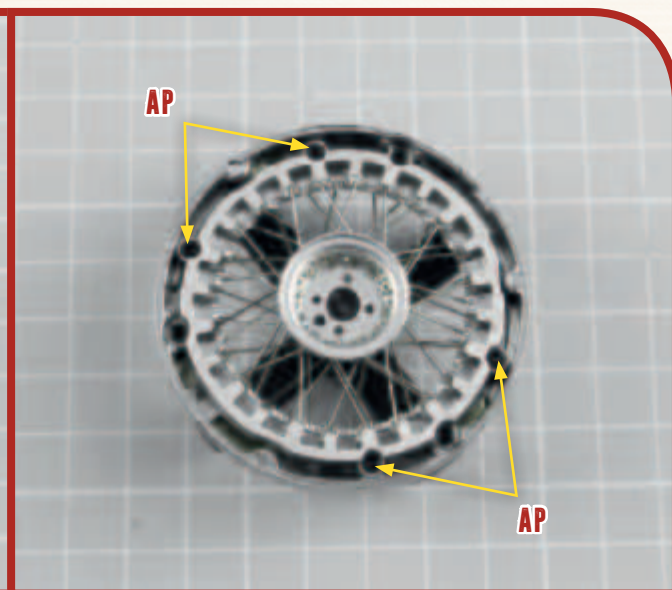
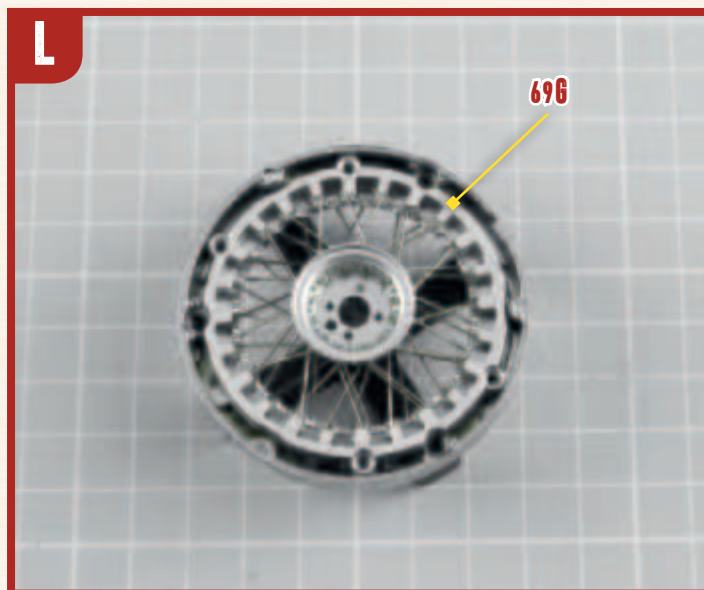
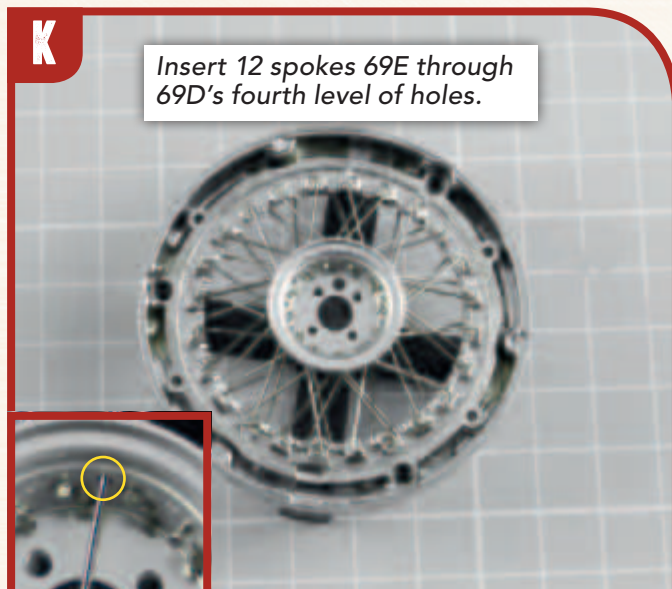
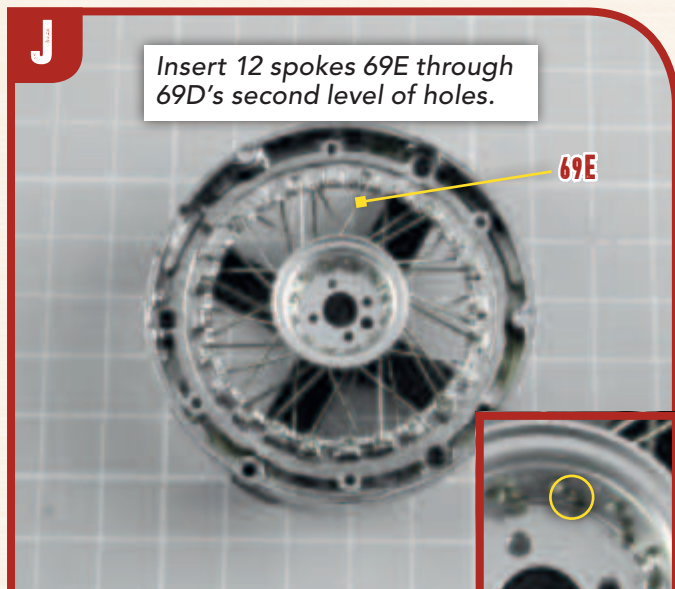
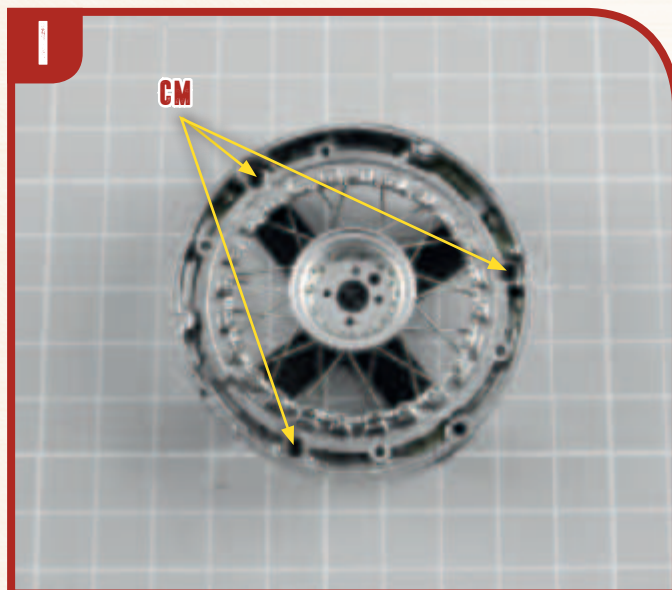
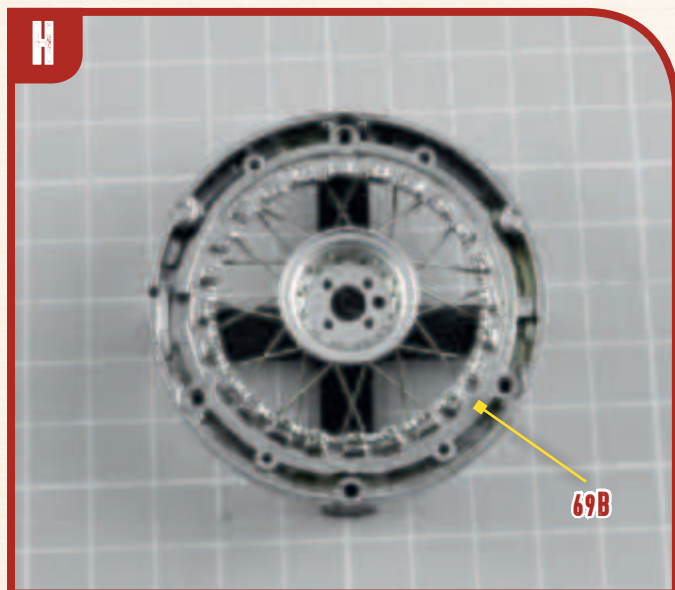
Repeat the process with other 11 spokes 69F.



G

Insert 12 spokes 69F through 69D's third level of holes.





69B PARTS LIST

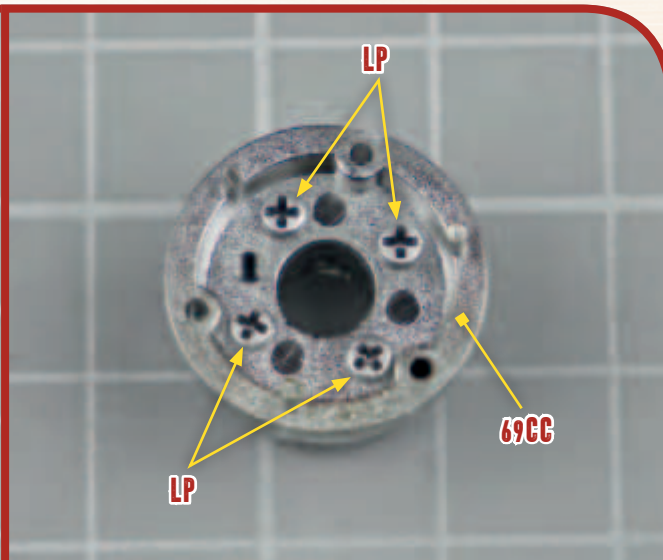
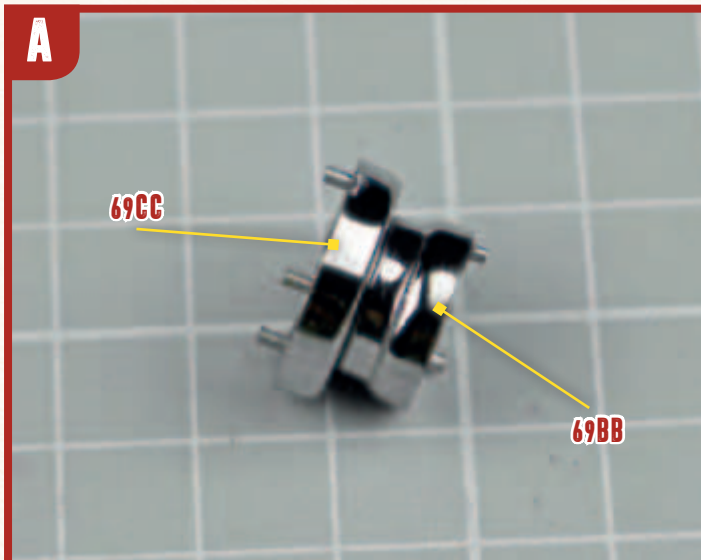
EASY ASSEMBLY

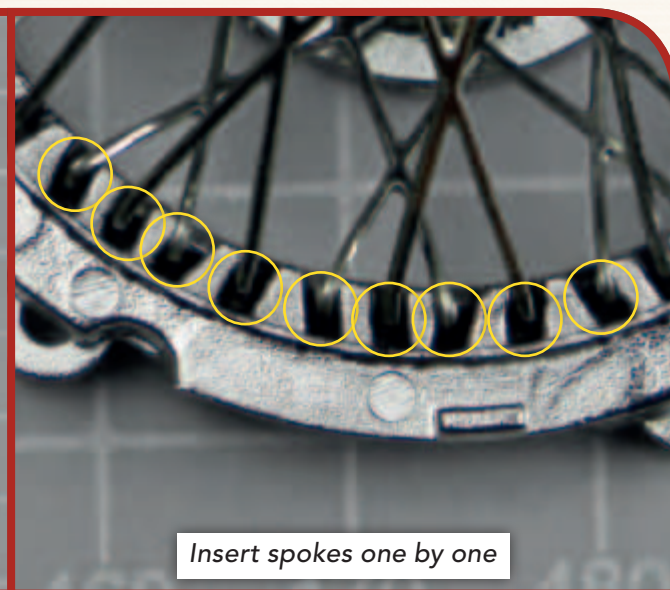
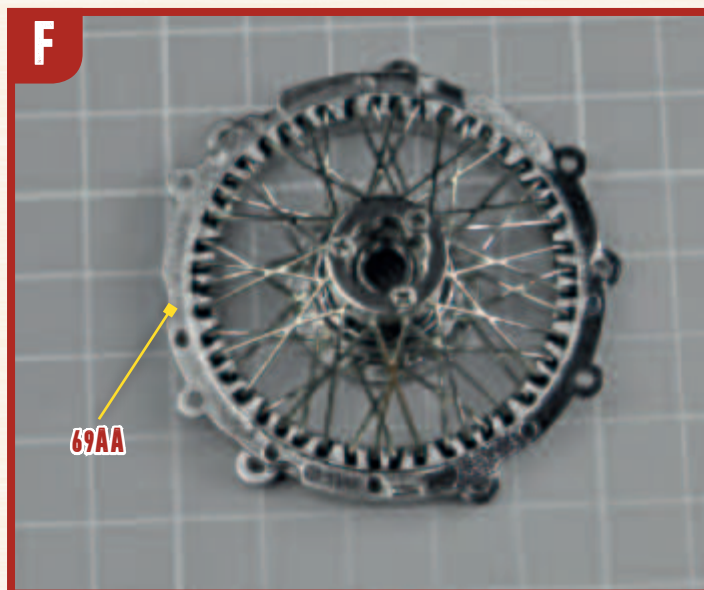
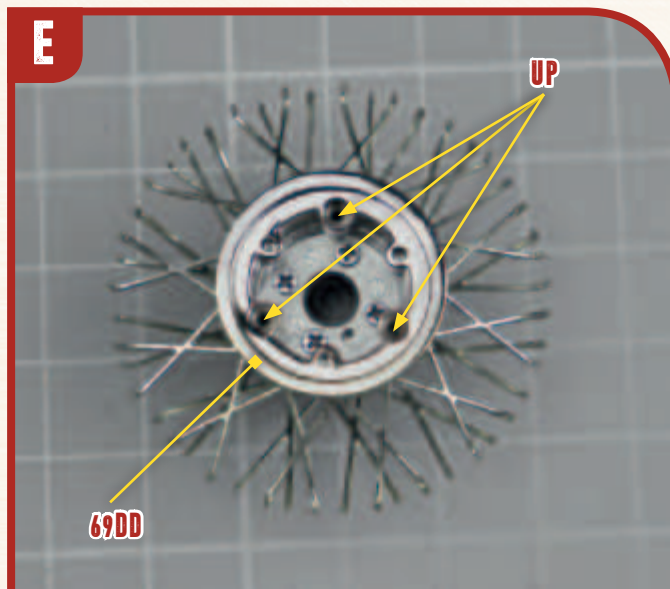
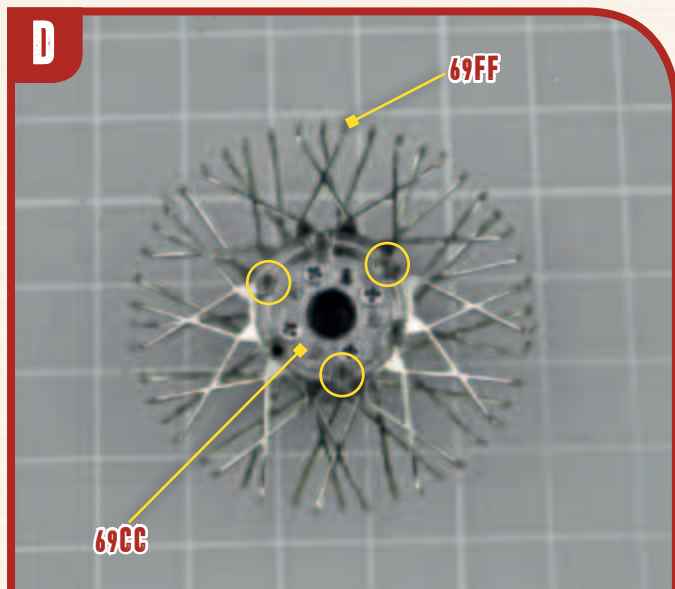
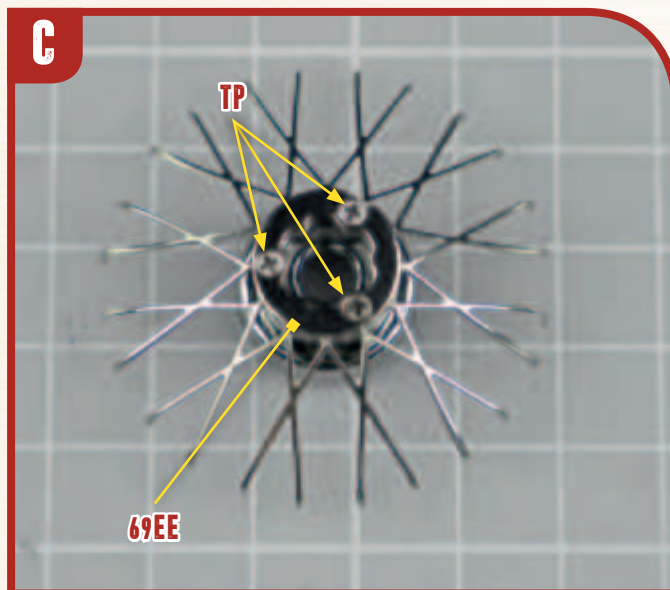
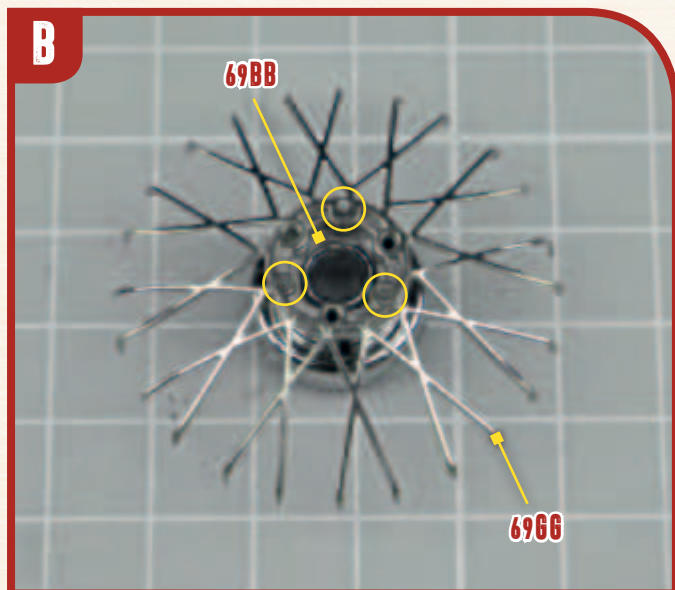


69AA Central ring 1
69BB Hub 1
69CC Hub 2
69DD Hub 3
69EE Hub 4
69FF Spokes 1

69GG Spokes 2
LP 5 screws (1.5x3mm)
TP 4 screws (1.5x5mm)
UP 4 screws (1.7x4mm)

A





70 PARTS LIST

REGULAR ASSEMBLY

- 70A** Inner rim
- 70B** Central ring 3
- 70C** Hub 2
- 70D** Spokes 3
- 70E** Double-sided tape
- CM** 4 screws (1.7x4mm)
- KM** 5 screws (1.5x5mm)

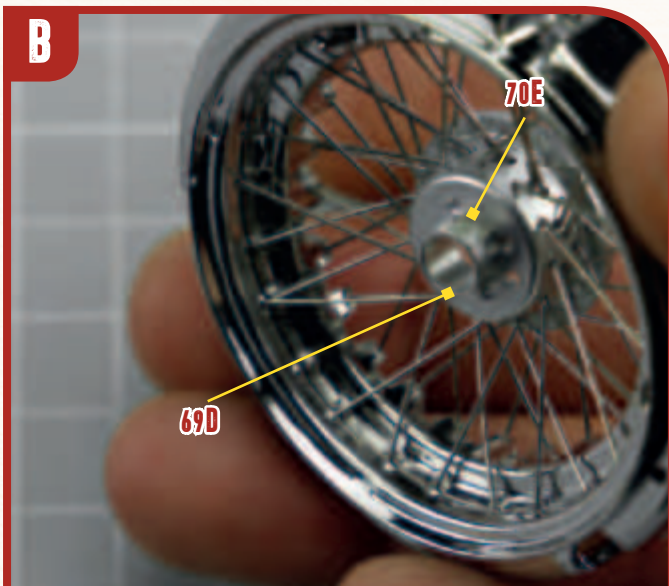


A

Apply 24 pieces of double-sided tape 70E to 69B's inner profile and tear off their top sheets.

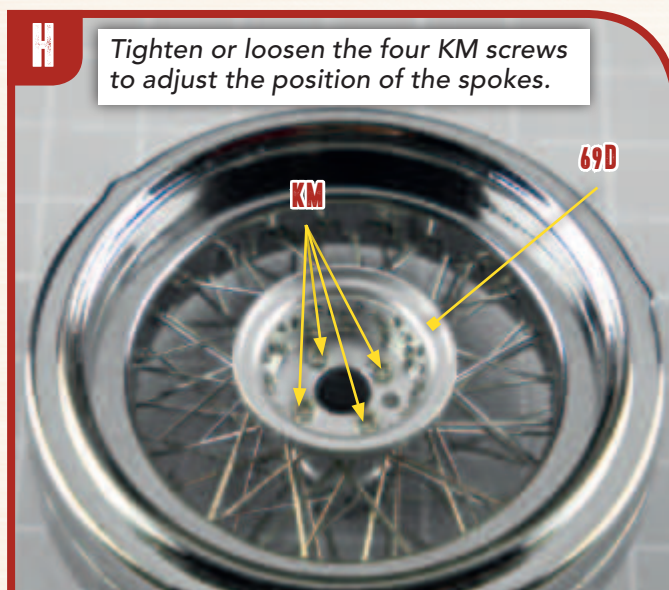
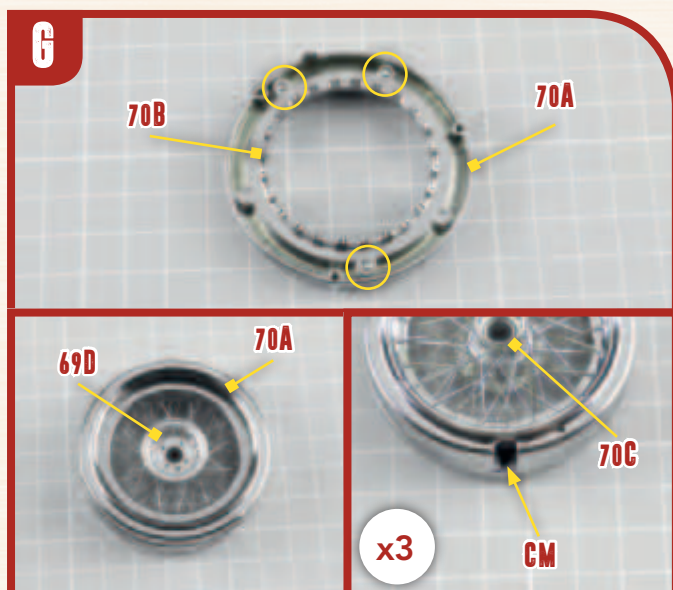
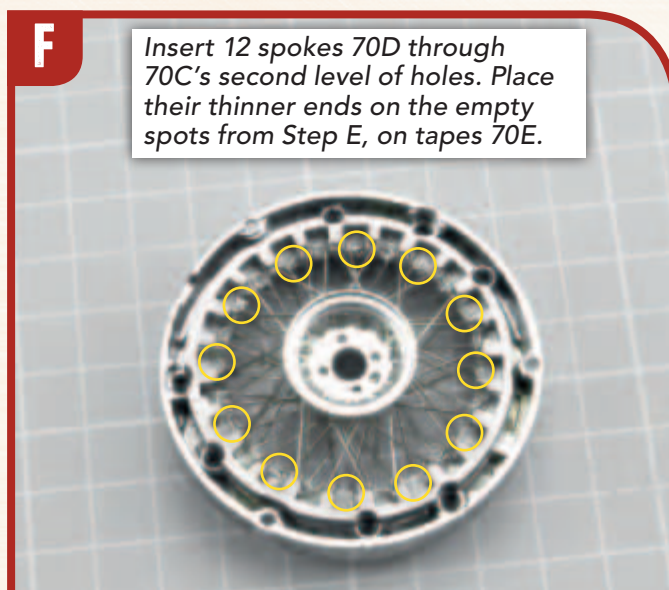
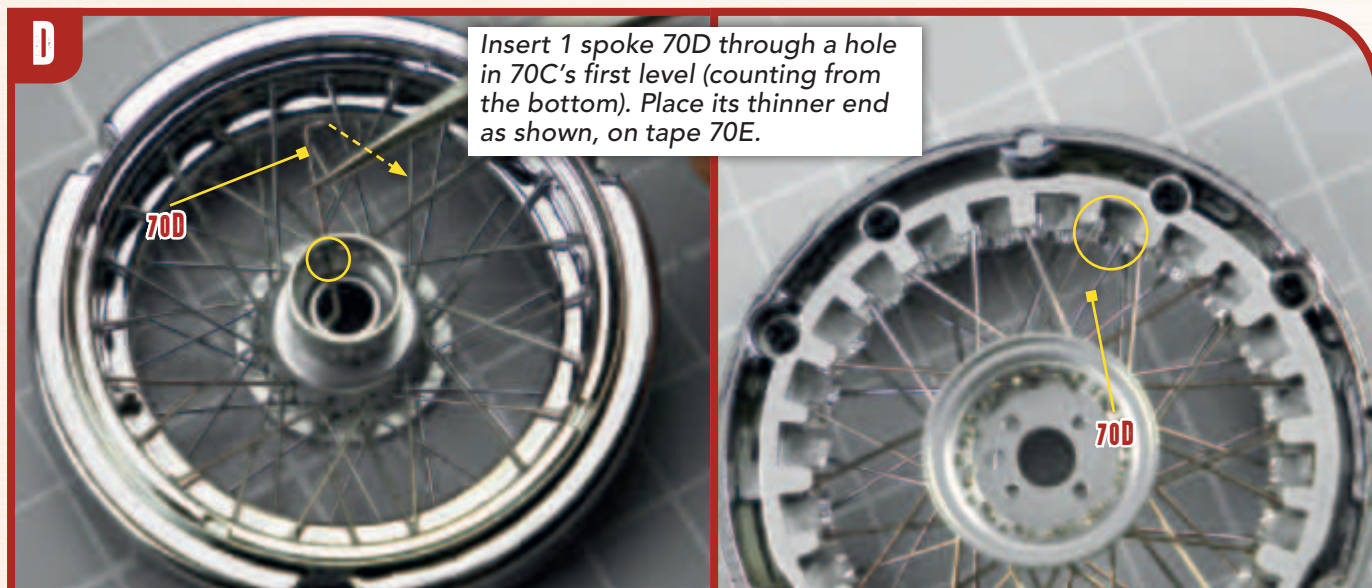


B



C





70B PARTS LIST

EASY ASSEMBLY

- 70AA Outer rim
- 70BB Inner rim
- 70CC Central ring 2
- 70DD Inflation valve

- AP 5 screws (1.7x4mm)
- CM 8 screws (1.7x4mm)



70AA



70BB



70CC

70DD

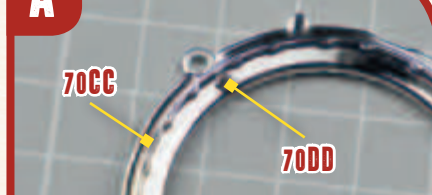


AP



CM

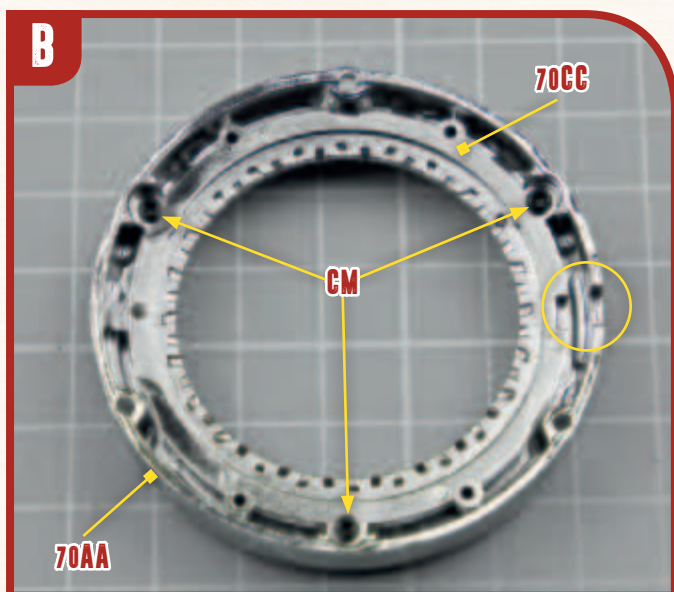
A



70CC

70DD

B

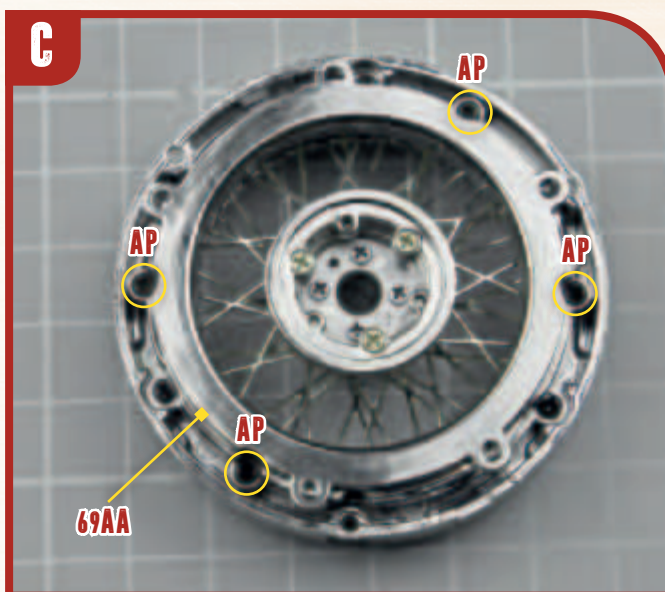


70CC

CM

70AA

C



AP

AP

AP

69AA

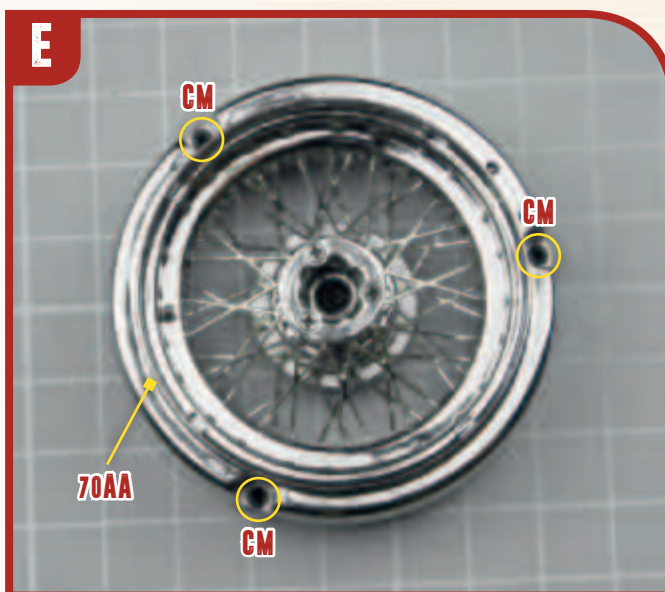
AP

D



70BB

E



CM

CM

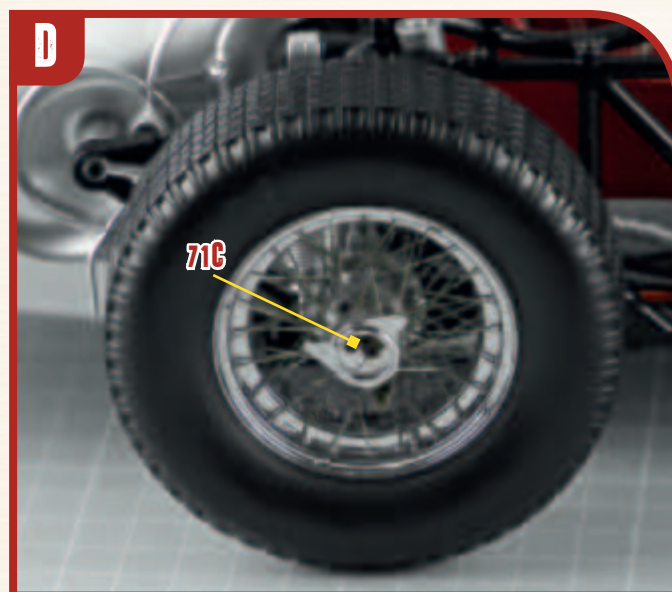
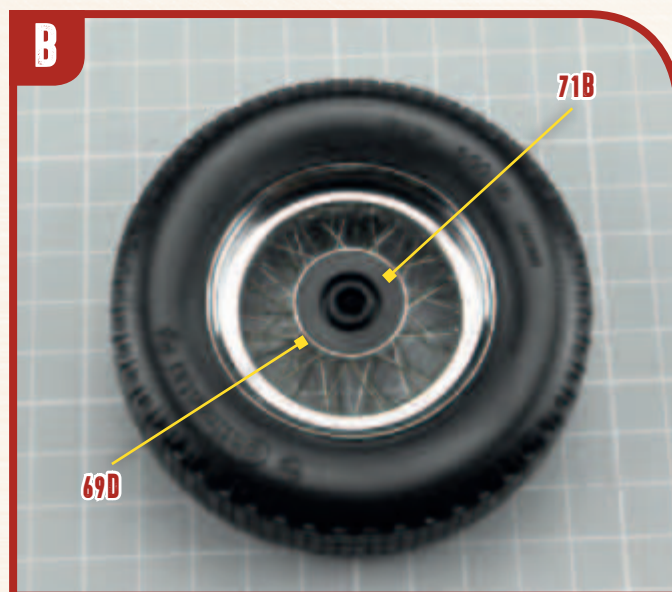
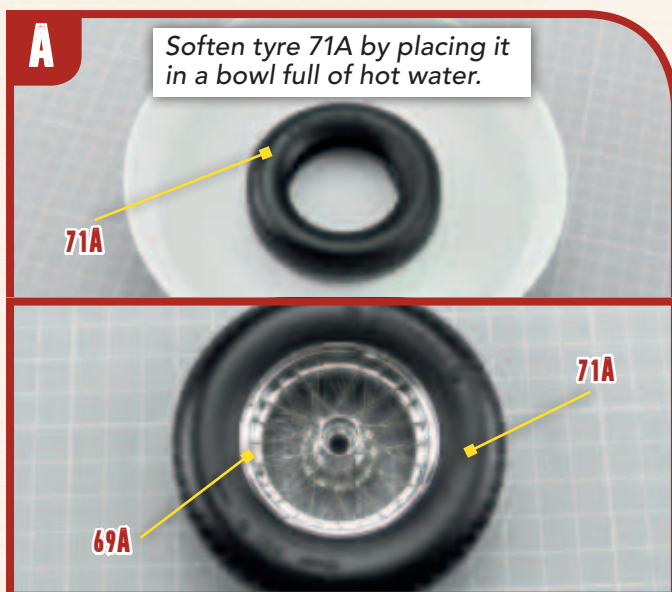
70AA

CM

71 PARTS LIST

REGULAR ASSEMBLY

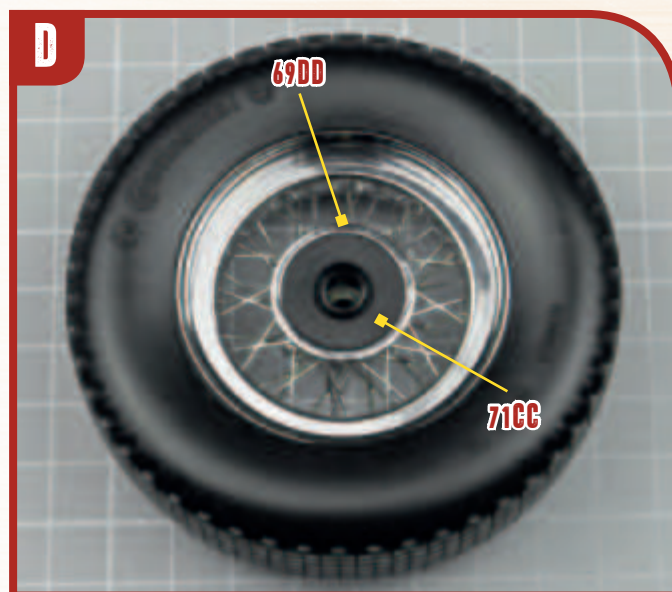
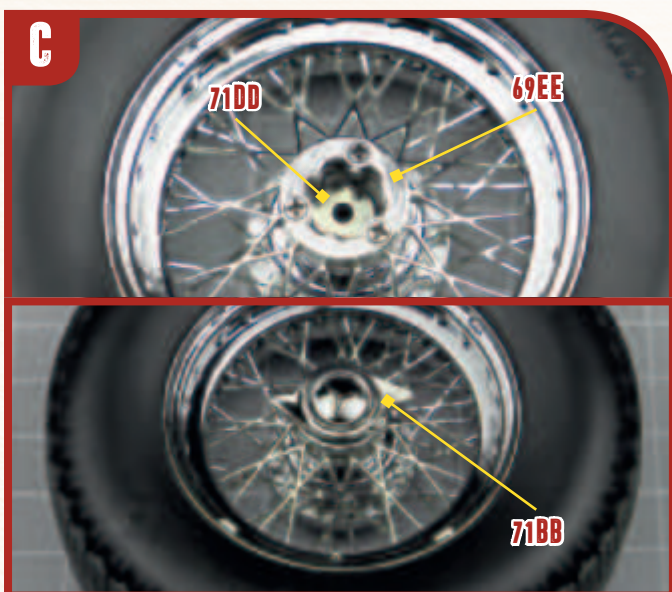
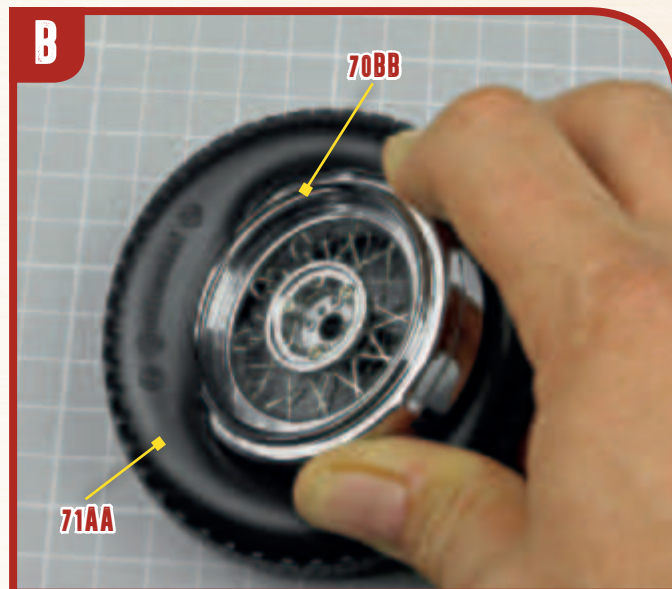
- 71A Tyre
- 71B Hub 3
- 71C Hubcap
- 71D Washer ring
- JM 2 screws (2x5mm)



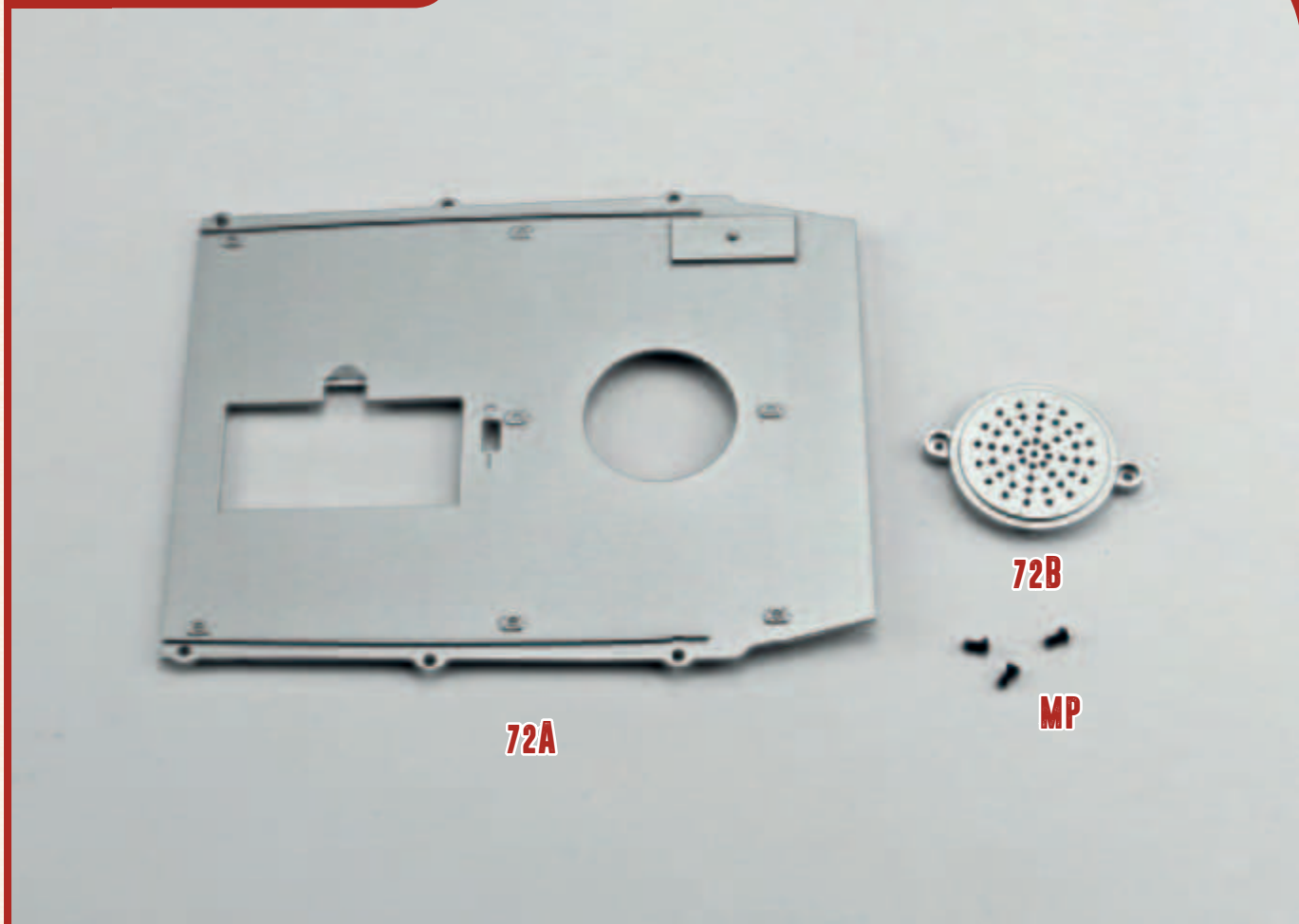
71B PARTS LIST

EASY ASSEMBLY

- 71AA** Tyre
- 71BB** Hubcap
- 71CC** Hub 5
- 71DD** Washer ring
- JM** 2 screws (2x5mm)



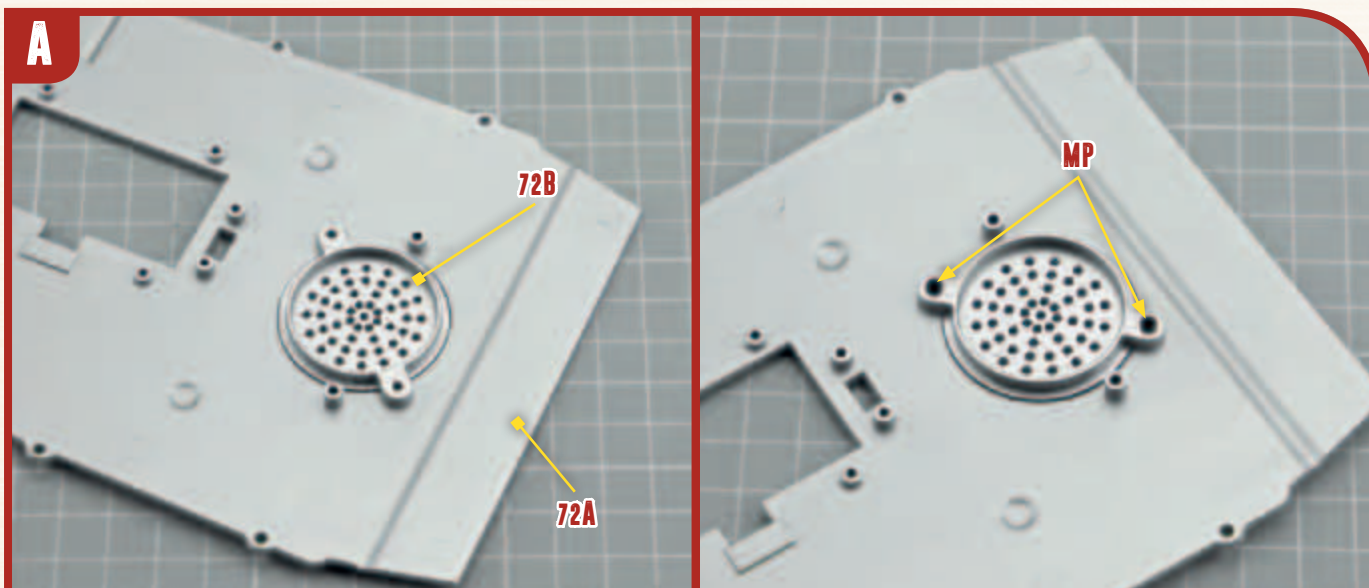
72 PARTS LIST



72A Bottom floor panel

MP 3 screws (2x3mm)

72B Speaker cover

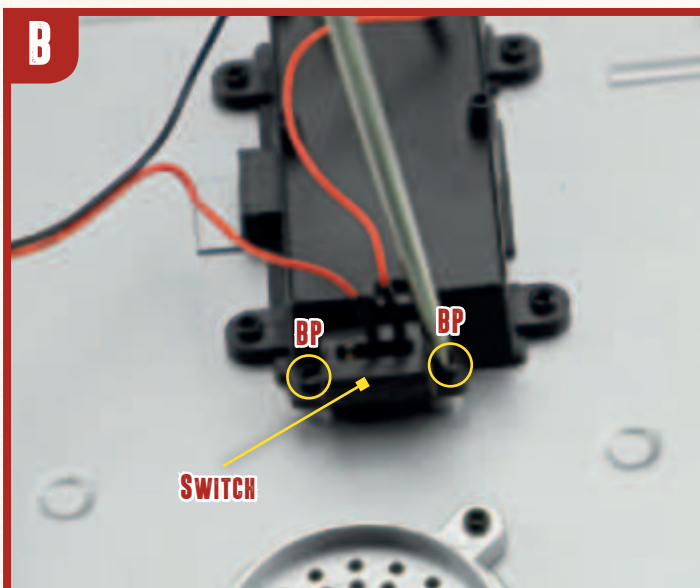
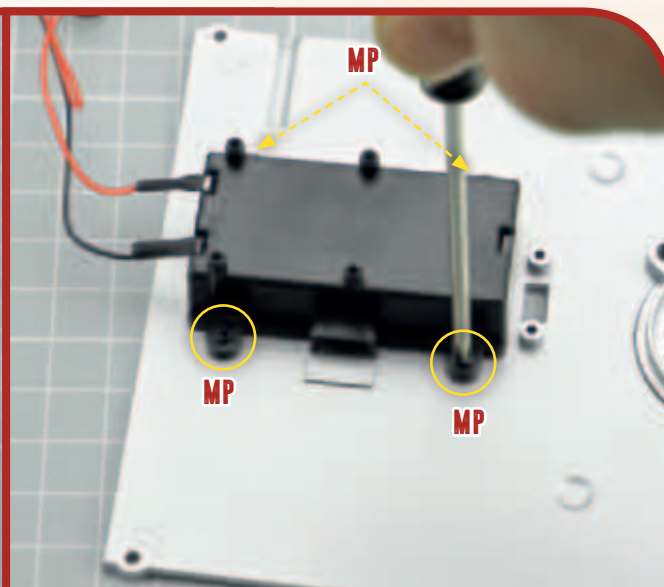
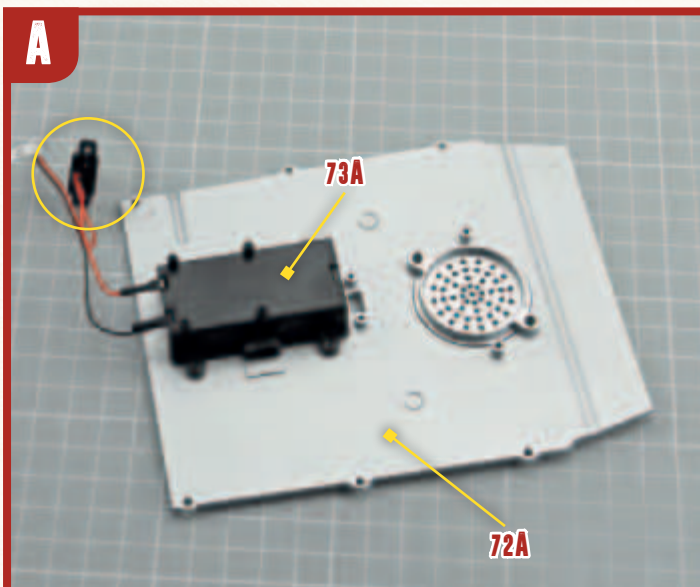
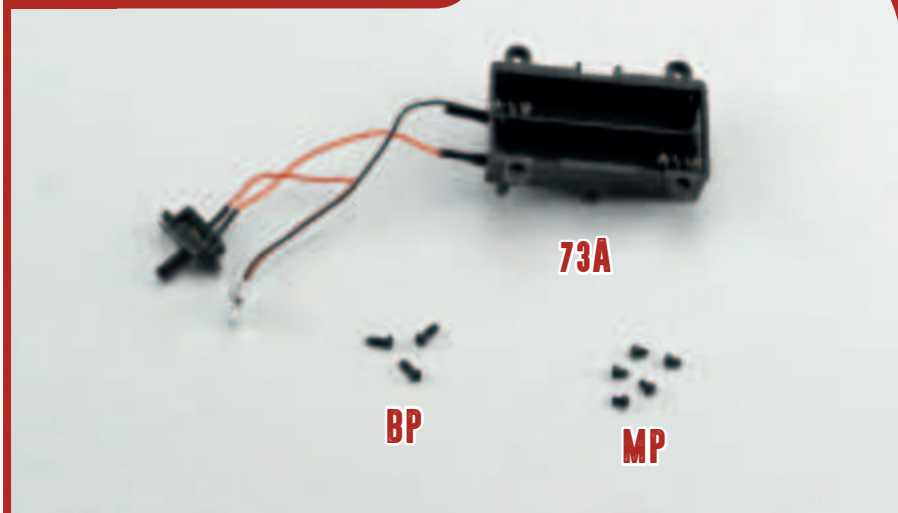


73 PARTS LIST

73A Battery compartment with switch

BP 3 screws (2x5mm)

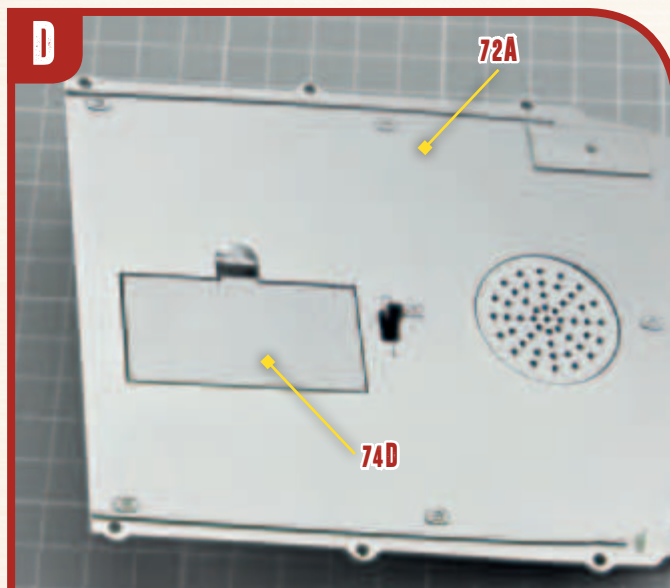
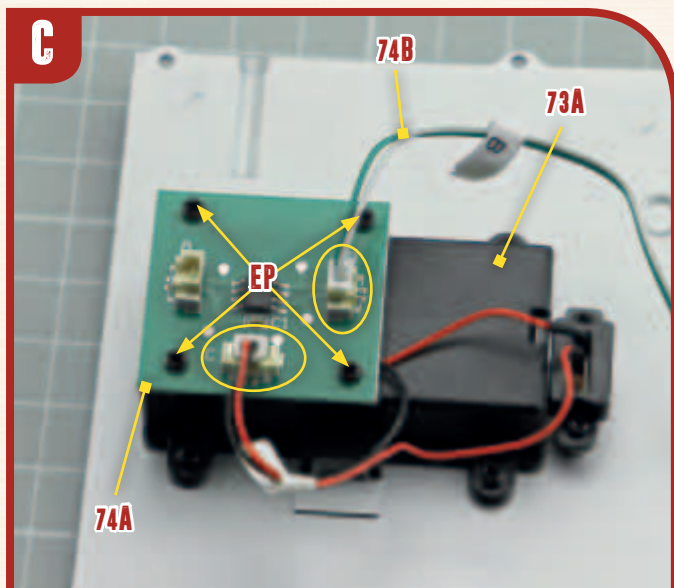
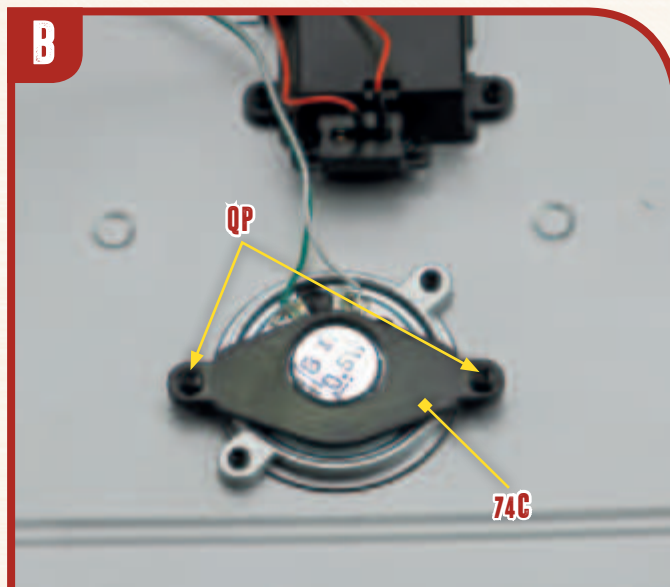
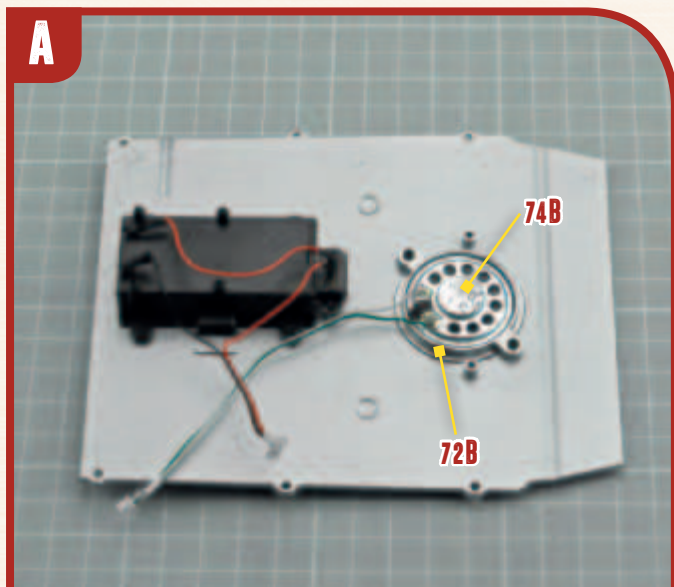
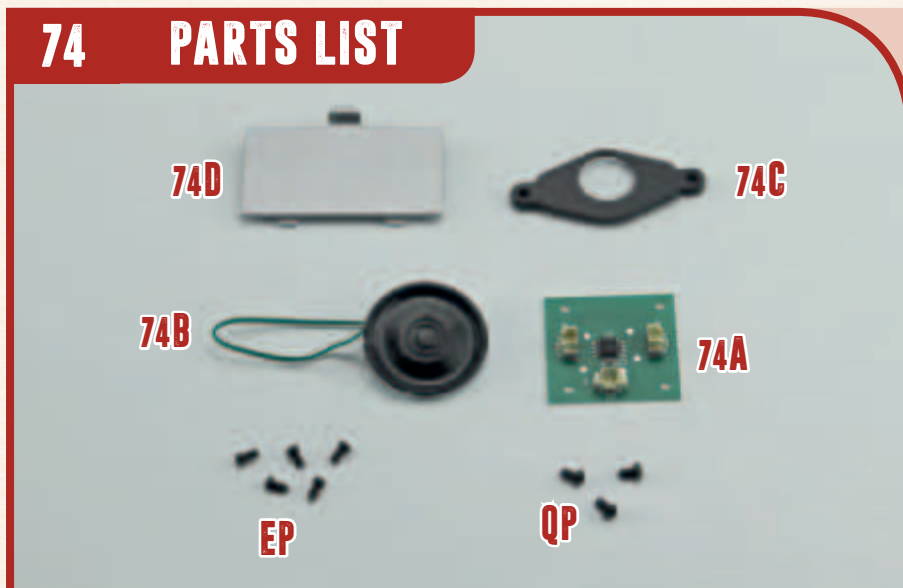
MP 5 screws (2x3mm)



74 PARTS LIST

- 74A** PCB
- 74B** Speaker
- 74C** Speaker support
- 74D** Battery compartment cover

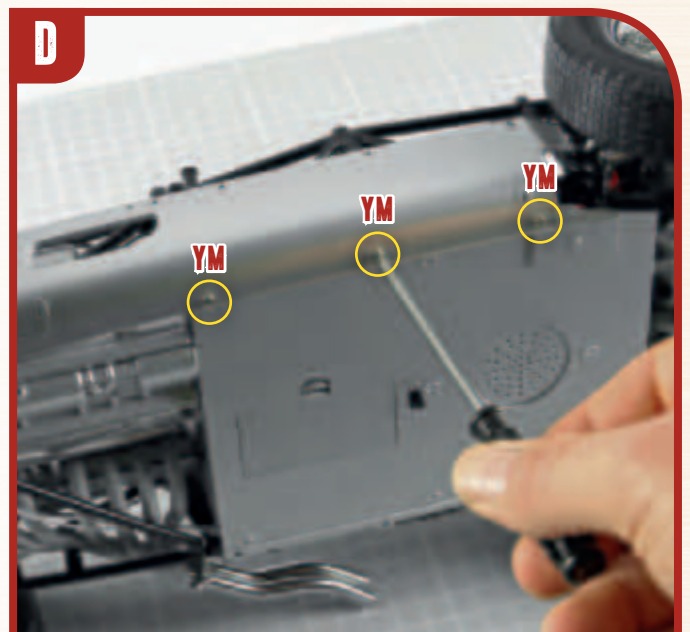
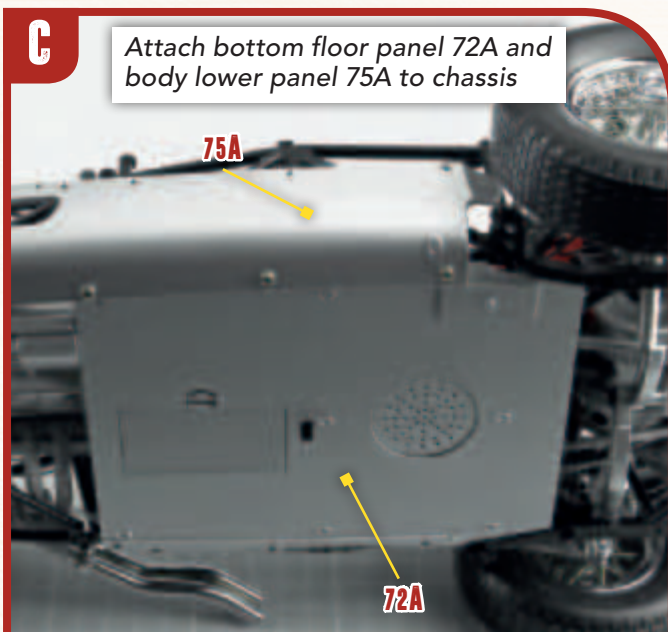
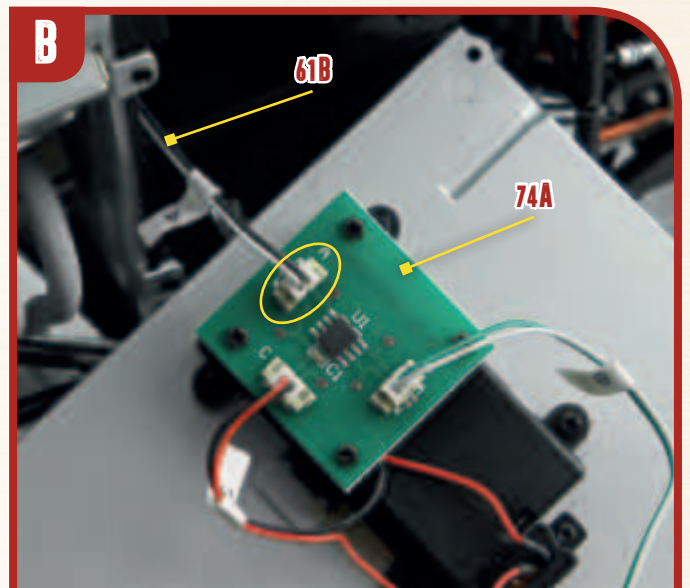
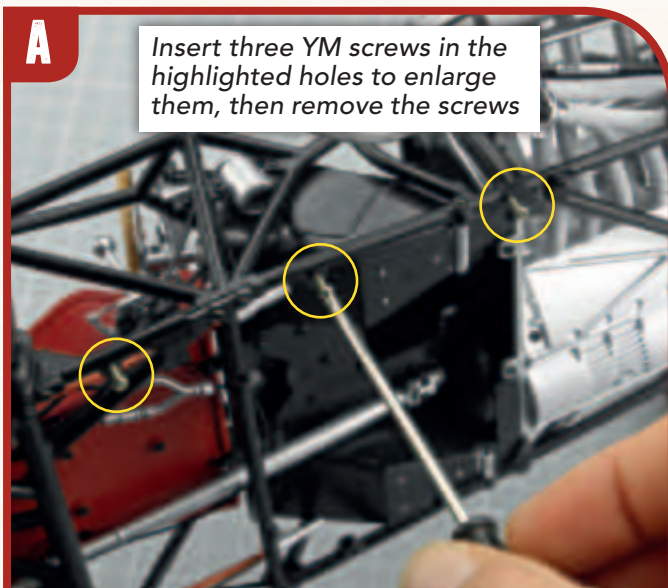
- EP** 5 screws (2x4mm)
- QP** 3 screws (2.3x4mm)



75 PARTS LIST

75A Body lower panel (L)

YM 4 screws (2.3x8mm)

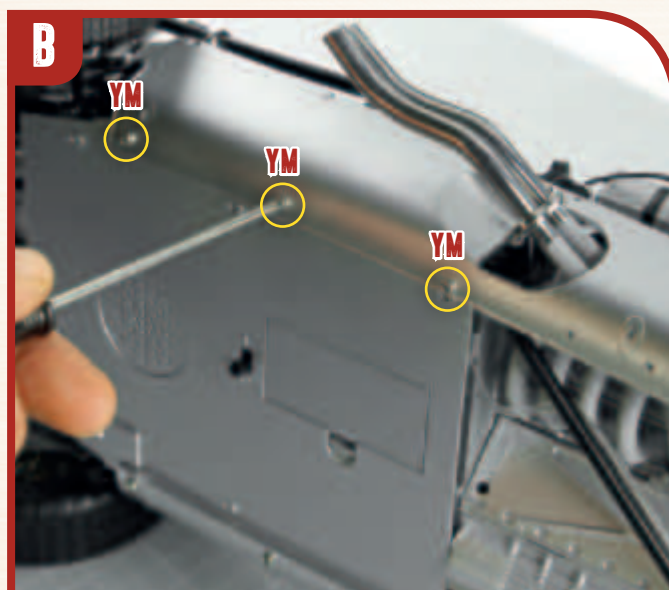
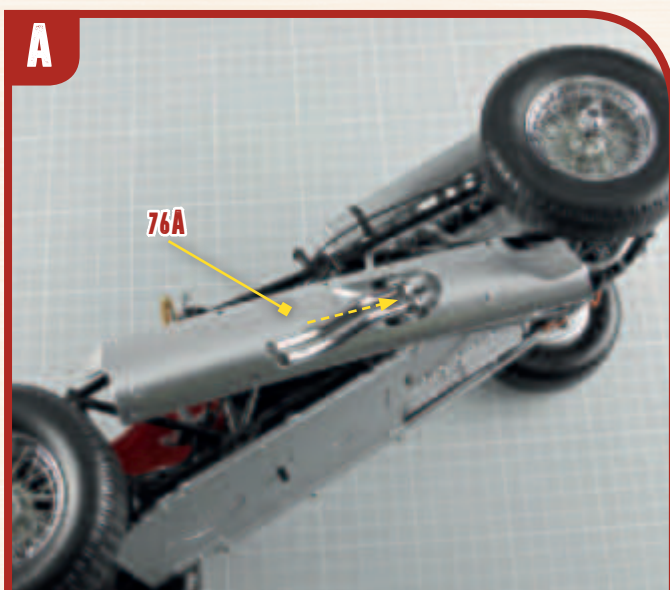


76 PARTS LIST



76A Body lower panel (R)

YM 4 screws (2.3x8mm)



77 PARTS LIST

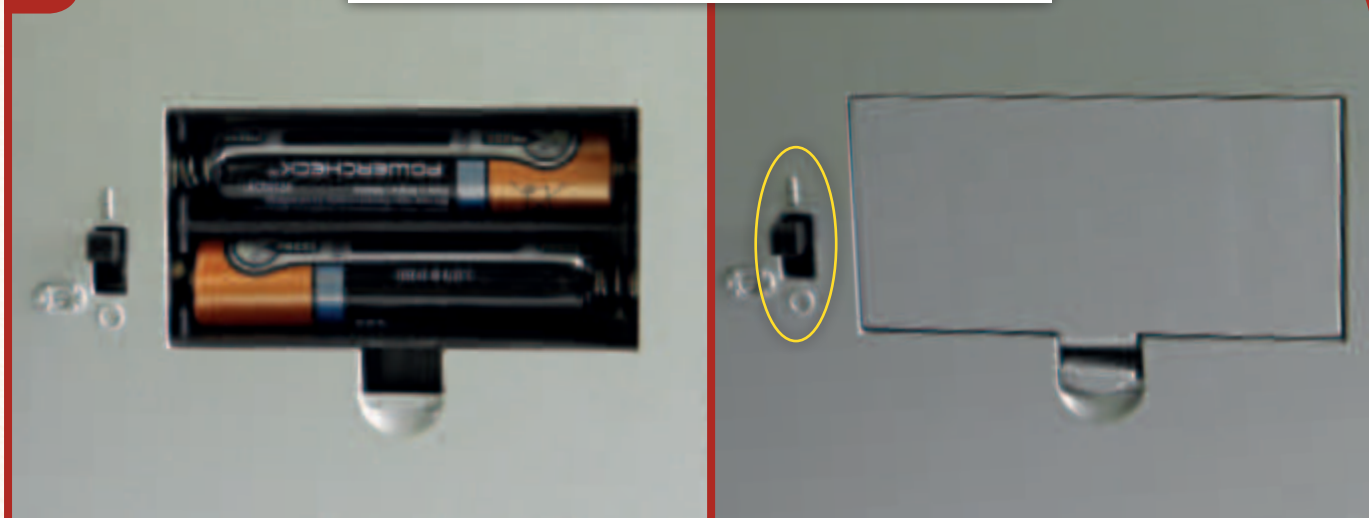


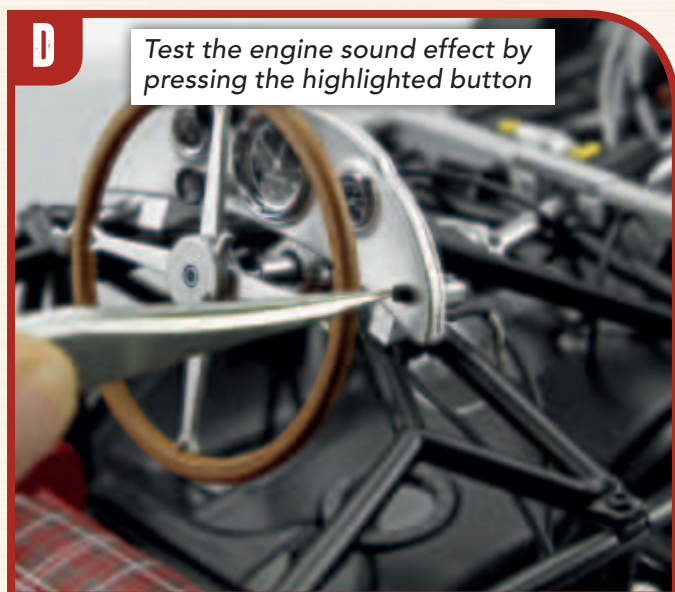
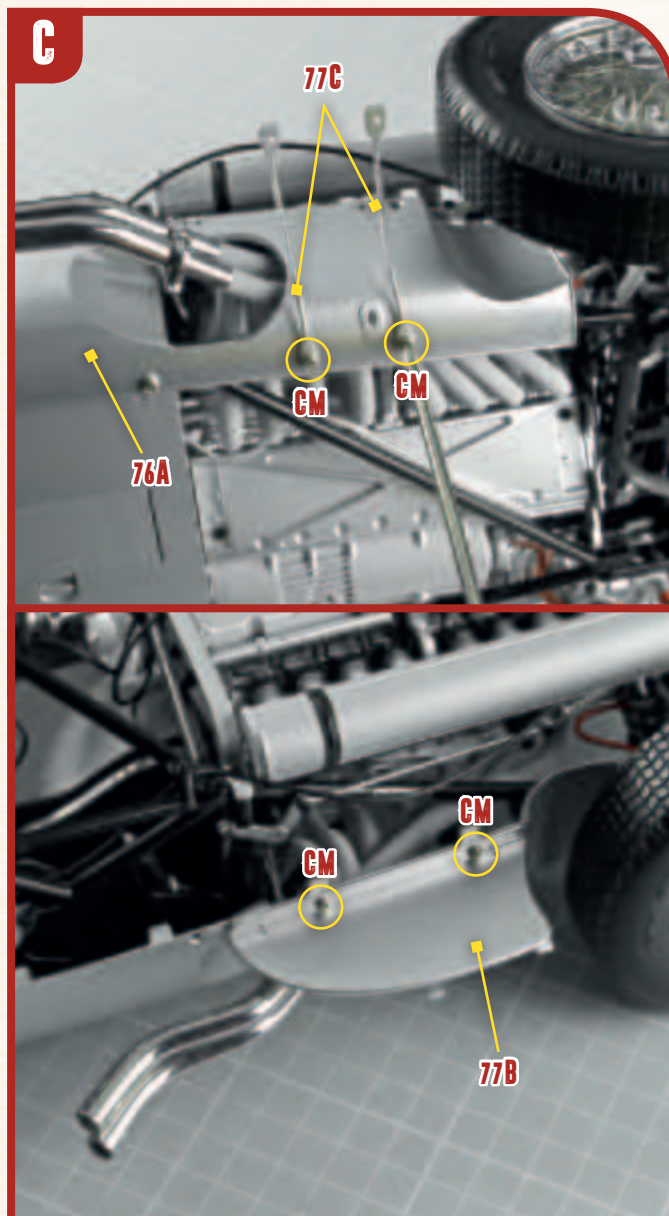
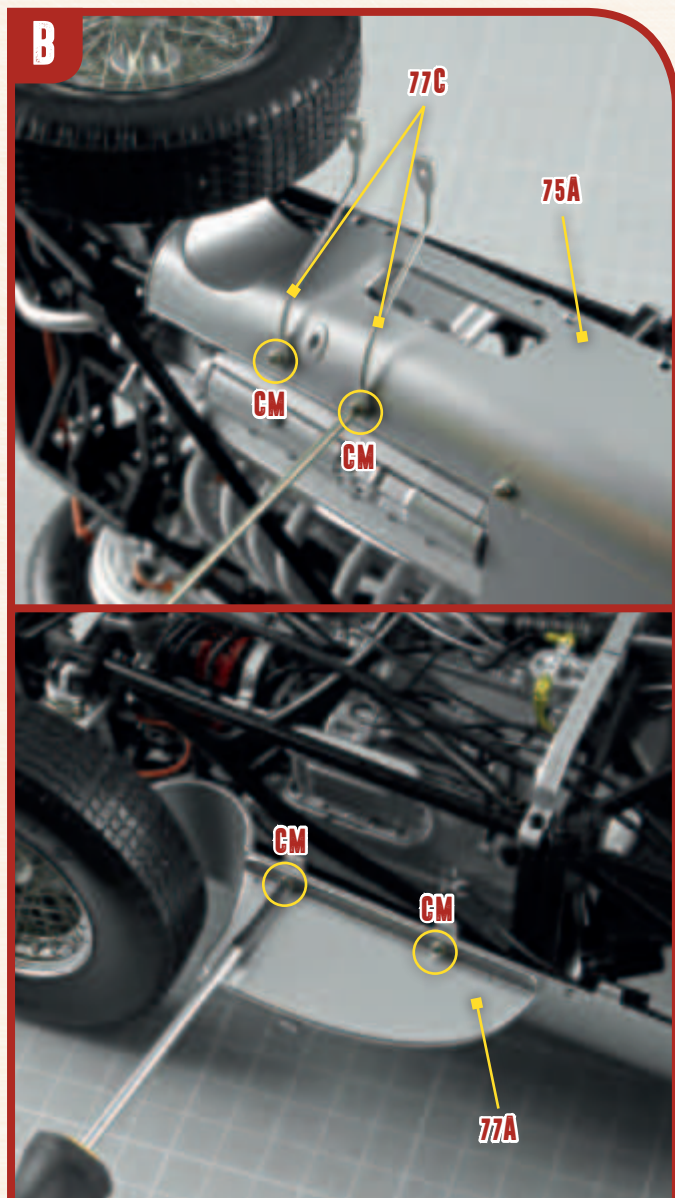
- 77A** Mudguard 1 (L)
- 77B** Mudguard 2 (R)
- 77C** Stretchers (x4)

CM 10 screws (1.7x4mm)

A

Insert two AAA batteries into the battery compartment



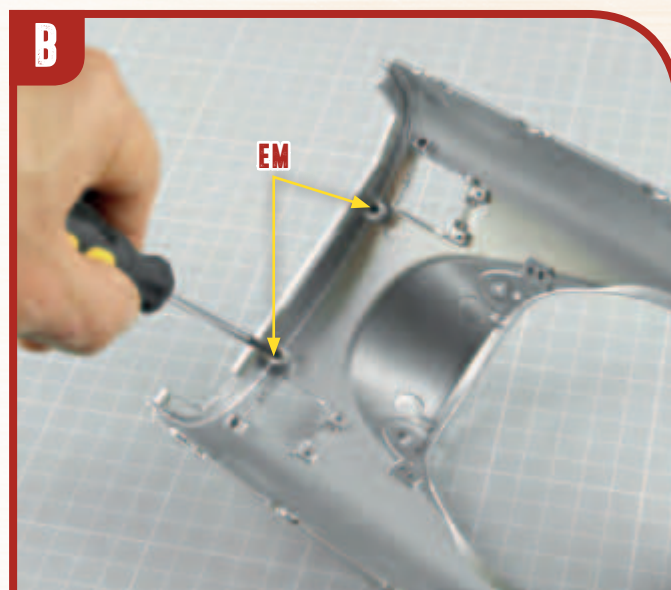
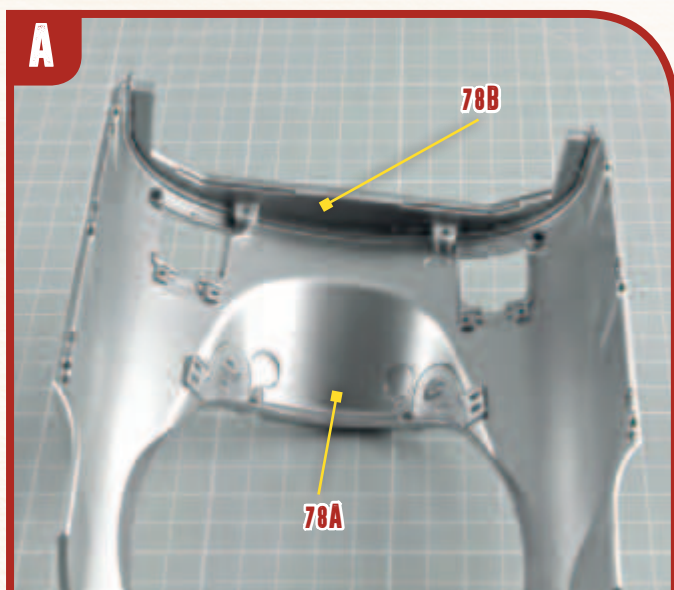


78 PARTS LIST



78A Body rear panel
78B Panel support

EM 3 screws (1.5x3mm)



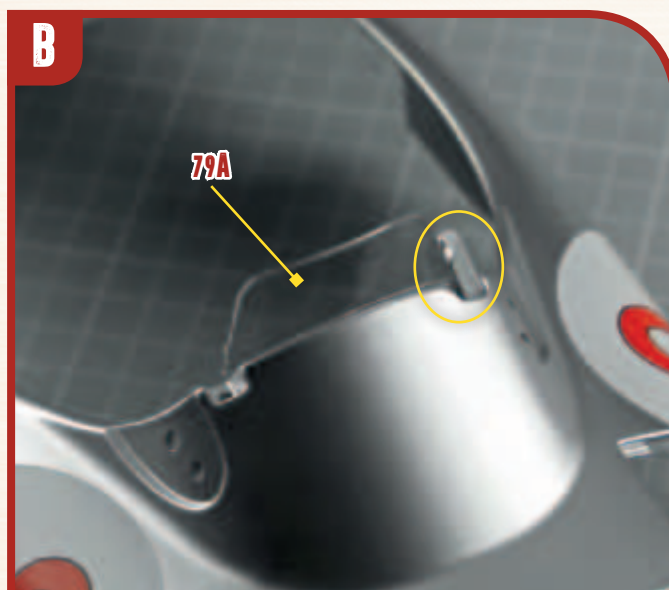
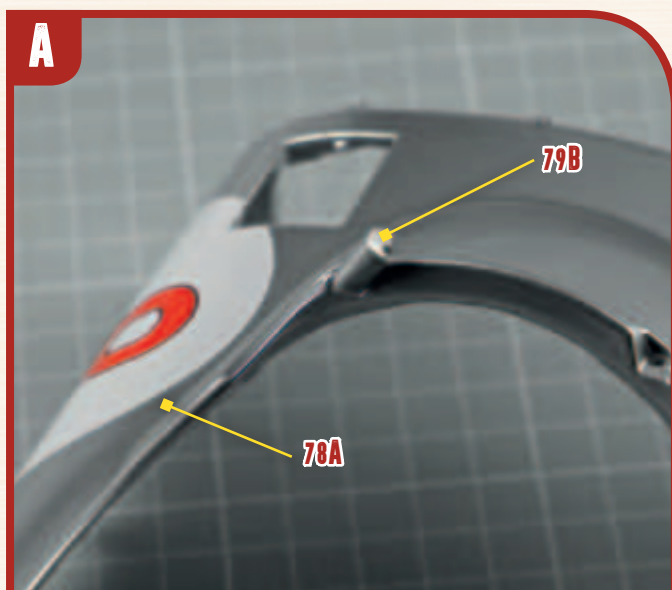
79 PARTS LIST

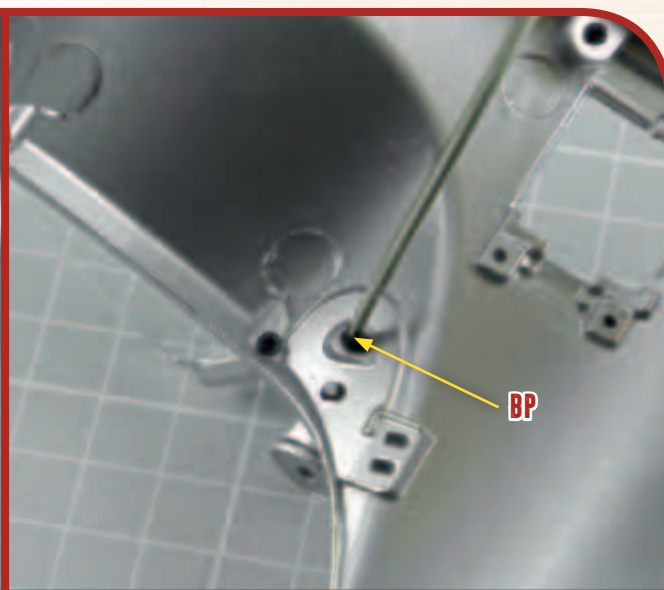
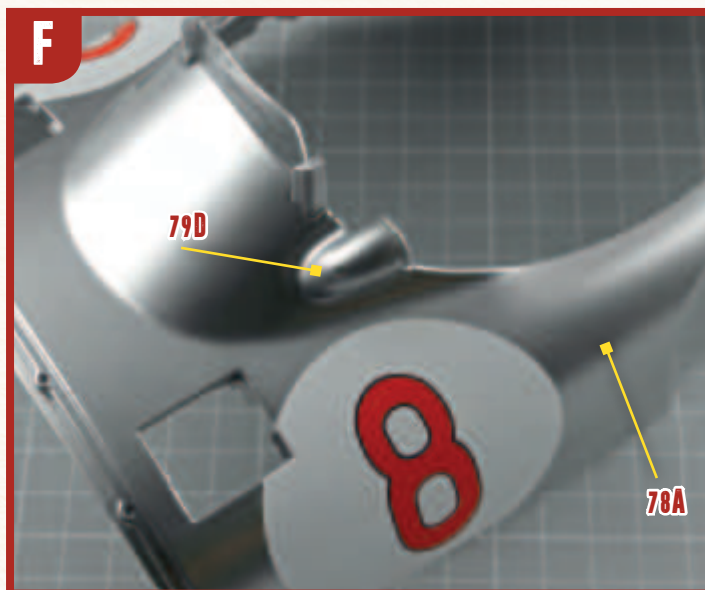
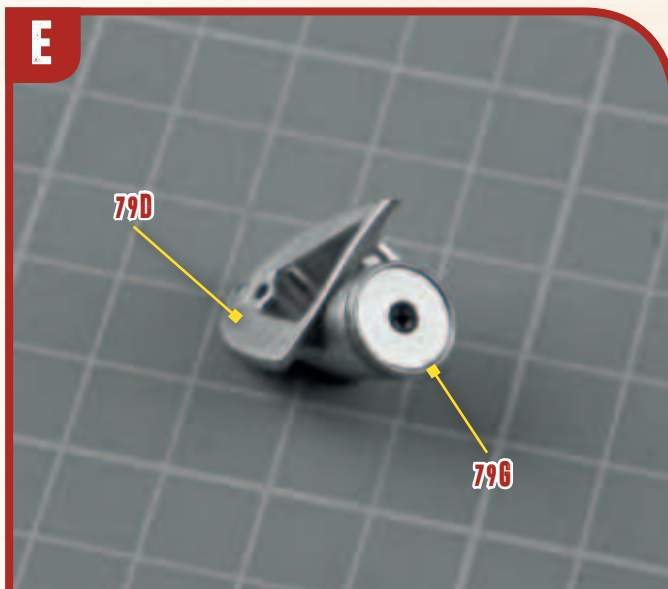
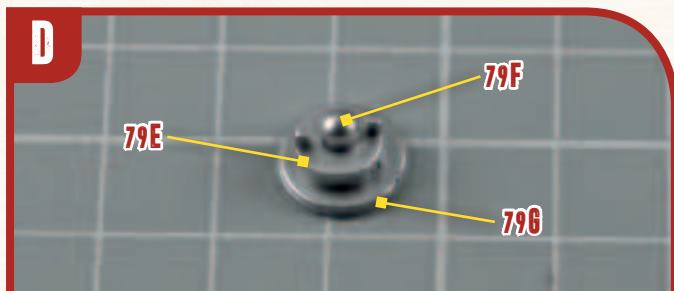
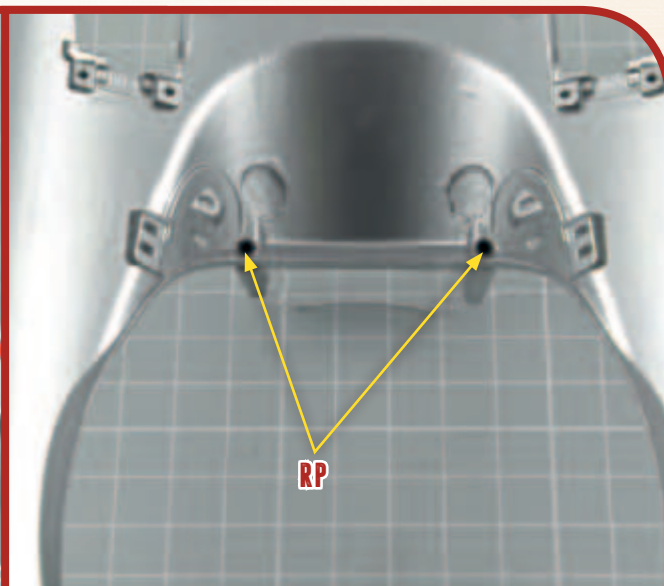


79A Windscreen
79B Windscreen support 1 (L)
79C Windscreen support 2 (R)
79D Left side-view mirror body

79E Mirror support 1
79F Mirror support 2
79G Mirror base

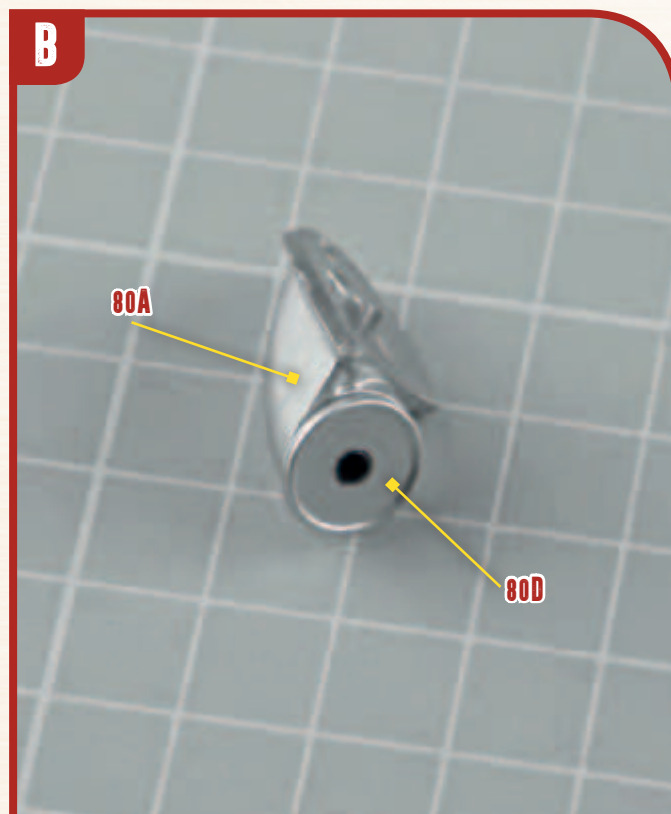
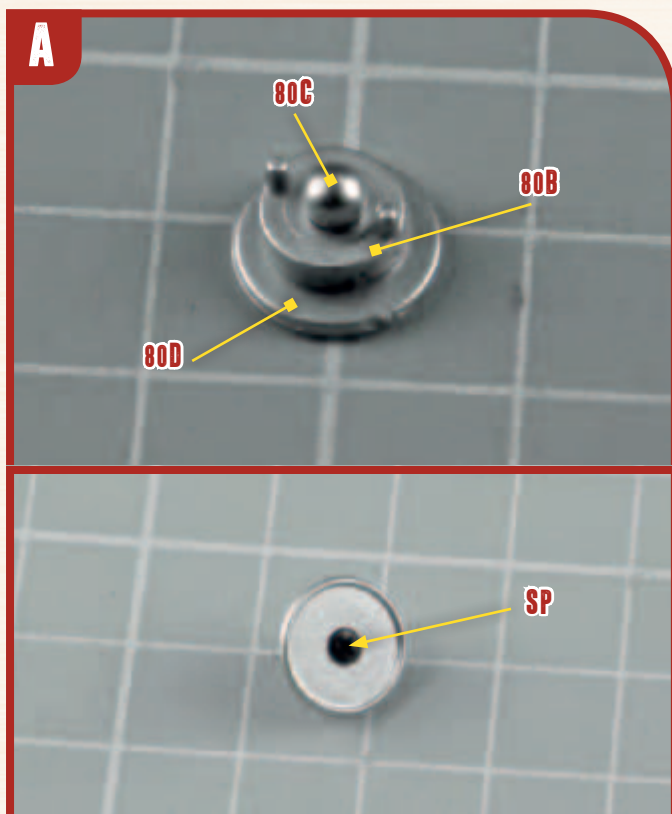
BP 2 screws (2x5mm)
RP 3 screws (1.5x5mm)
SP 2 screws (1.5x4mm)

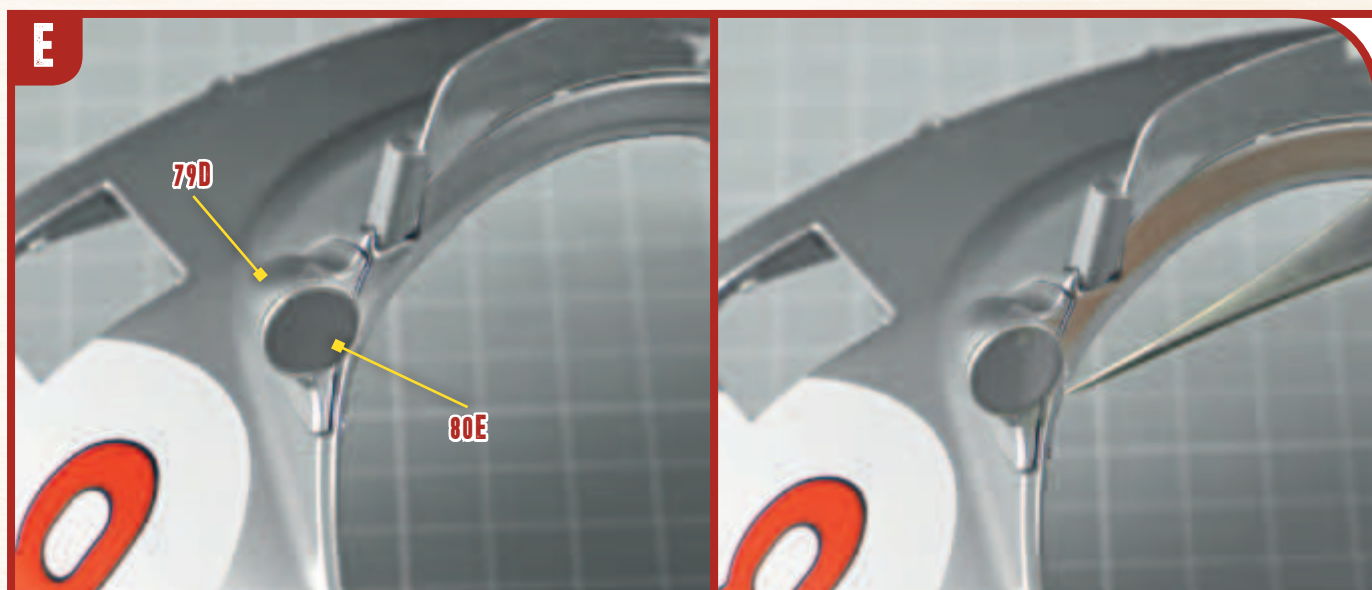
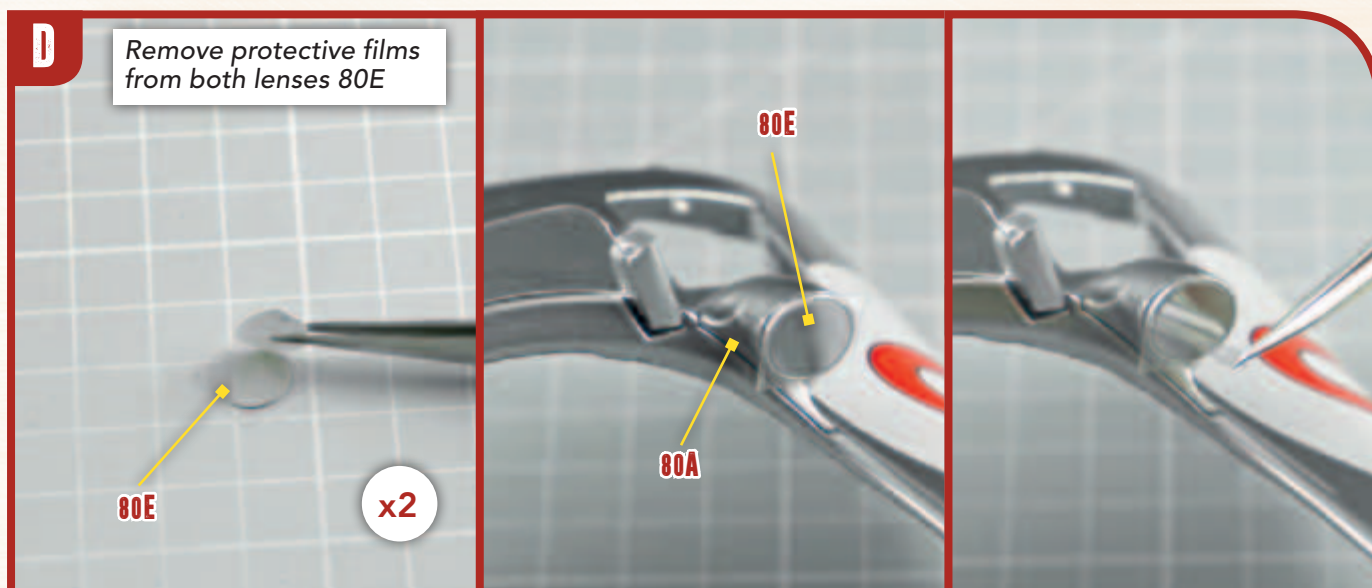
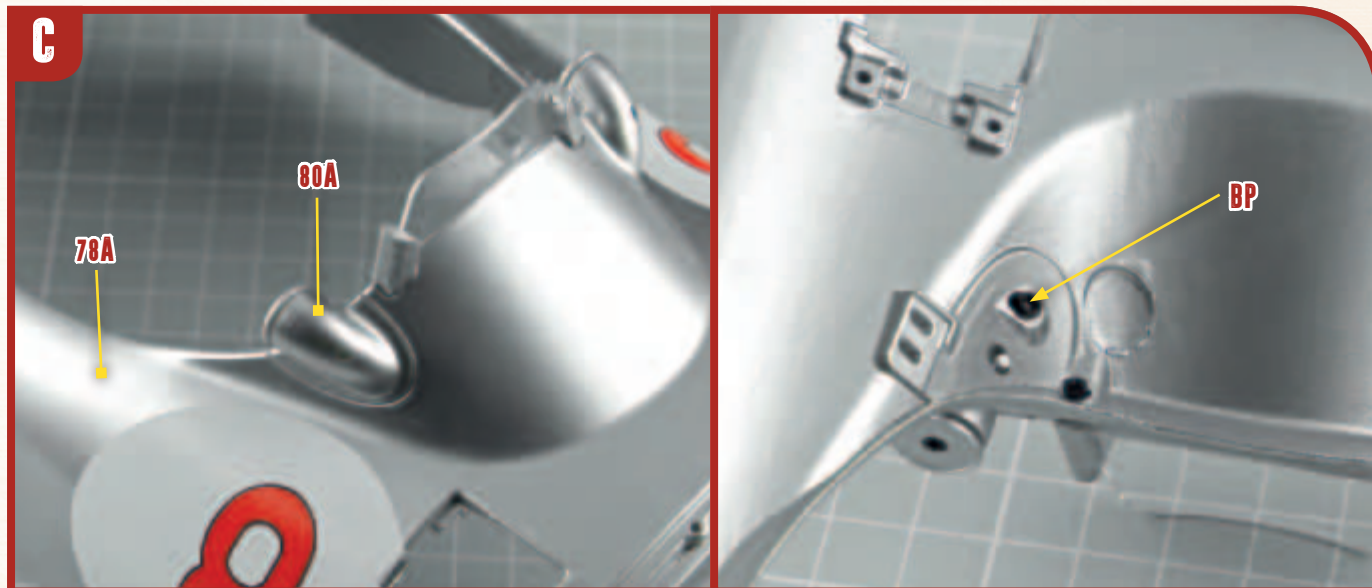




80 PARTS LIST

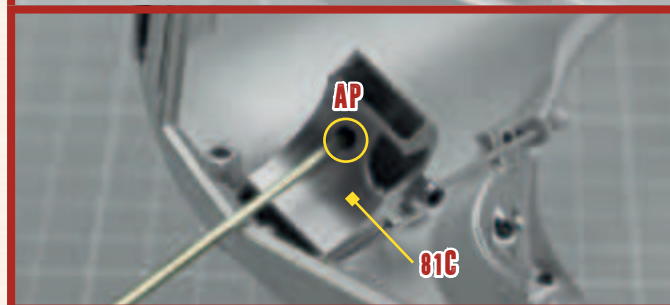
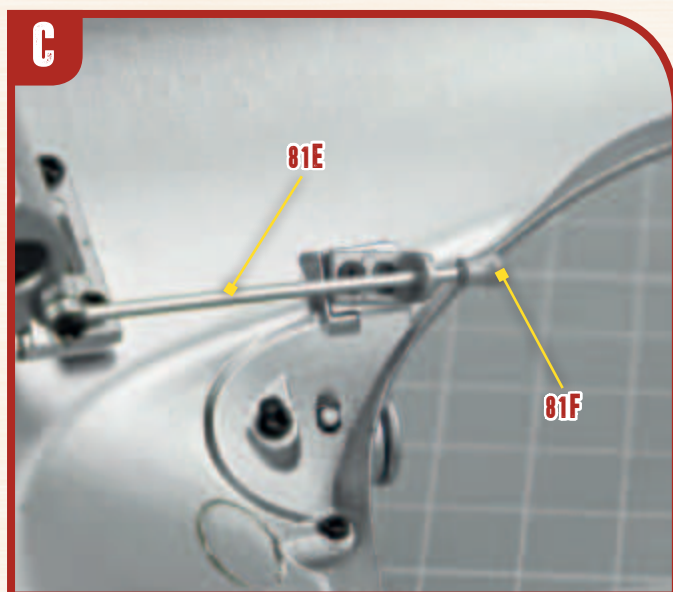
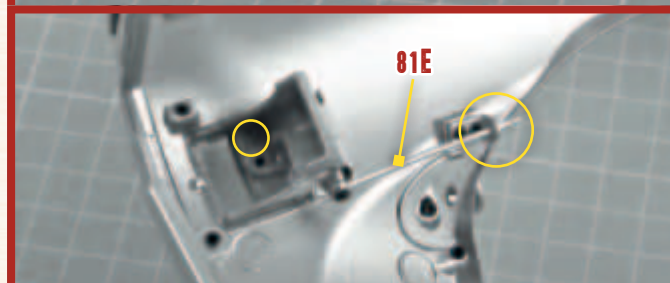
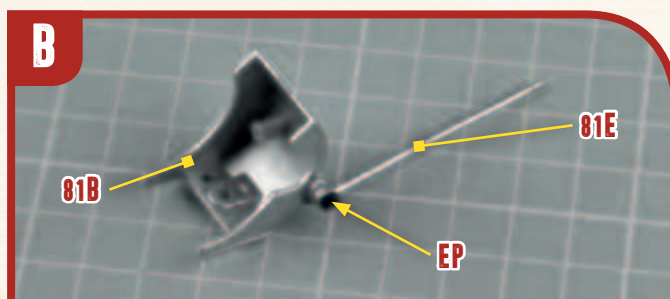
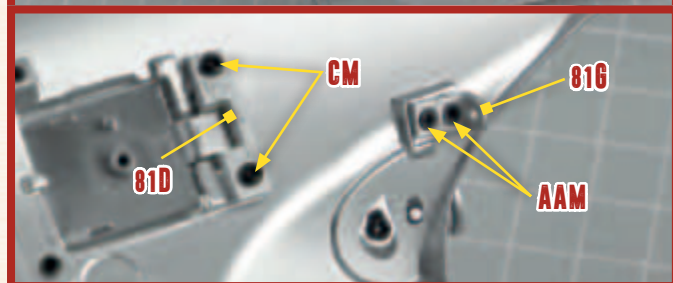
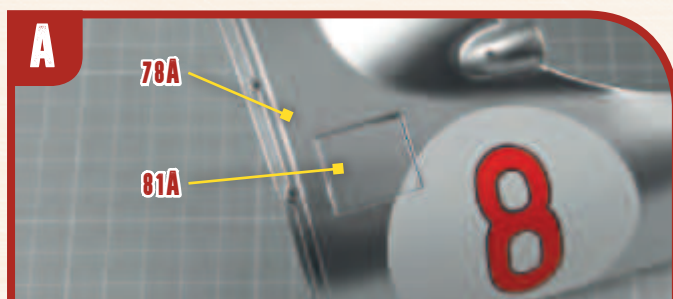
- 80A** Right side-view mirror body
- 80B** Mirror support 1
- 80C** Mirror support 2
- 80D** Mirror base
- 80E** Side-view mirrors lenses (x2)
- BP** 2 screws (2x5mm)
- SP** 2 screws (1.5x4mm)





81 PARTS LIST

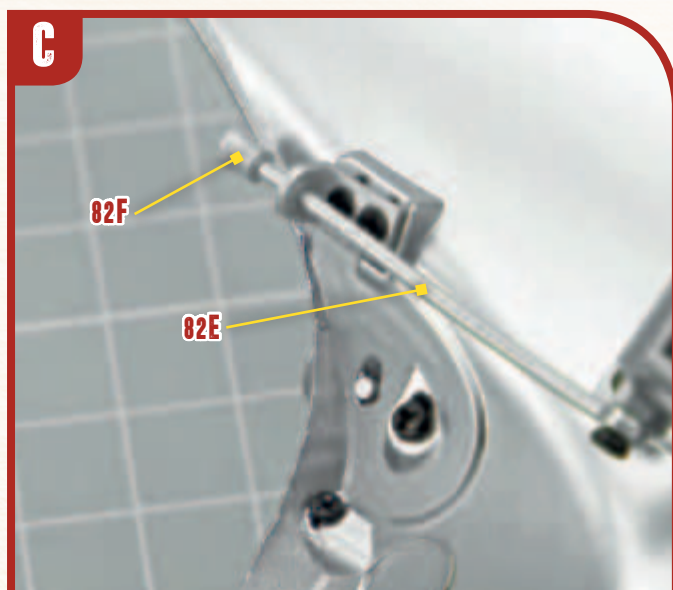
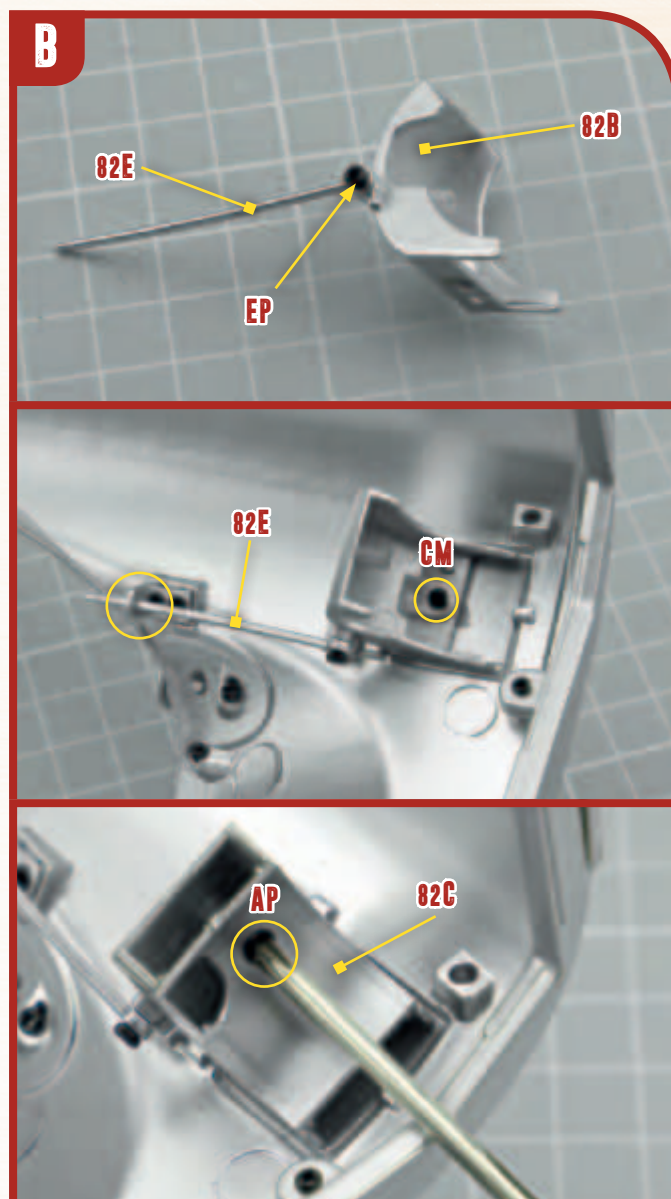
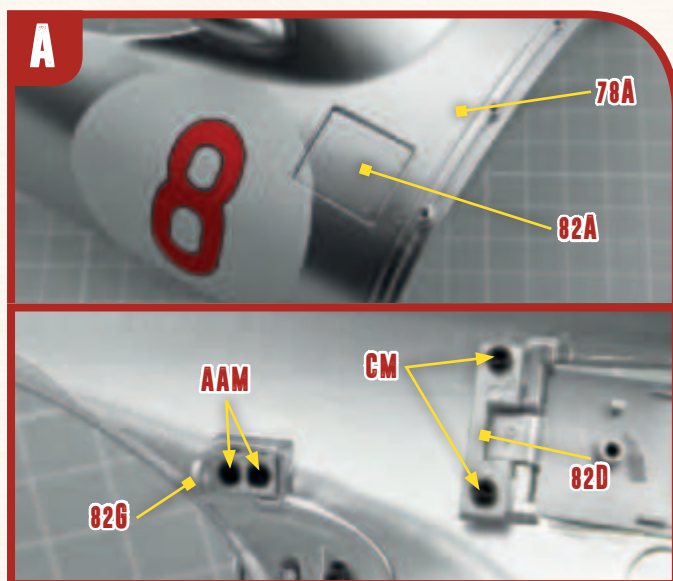
- 81A** Vent hole cover (L)
- 81B** Duct part A (L)
- 81C** Duct part B (L)
- 81D** Bracket 1 (L)
- 81E** Rod
- 81F** Knob
- 81G** Bracket 2
- AP** 2 screws (1.7x4mm)
- EP** 2 screws (2x4mm)
- AAM** 3 screws (1.7x3mm)
- CM** 4 screws (1.7x4mm)



82 PARTS LIST

82A Vent hole cover (R)
82B Duct part A (R)
82C Duct part B (R)
82D Bracket 1 (R)
82E Rod
82F Knob
82G Bracket 2

AP 2 screws (1.7x4mm)
EP 2 screws (2x4mm)
AAM 3 screws (1.7x3mm)
CM 4 screws (1.7x4mm)



83 PARTS LIST



83A Fuel tank cap cover

83B Oil tank cap cover

83C Fuel tank bracket

83D Fuel tank hinge

83E Oil tank bracket

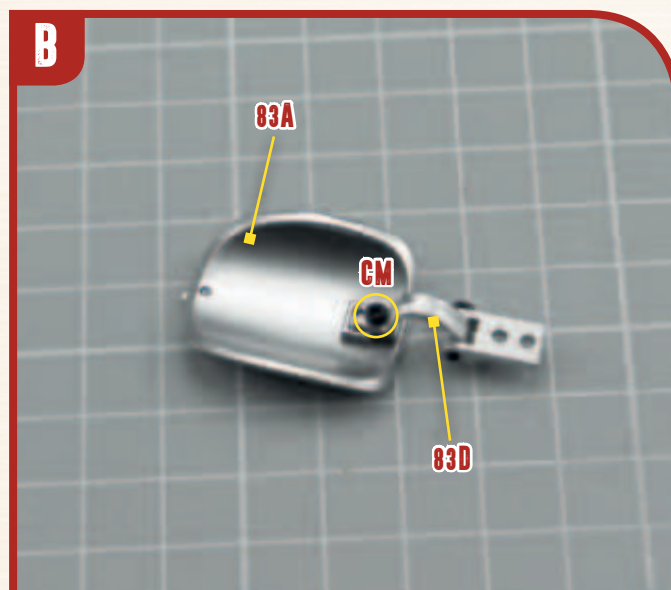
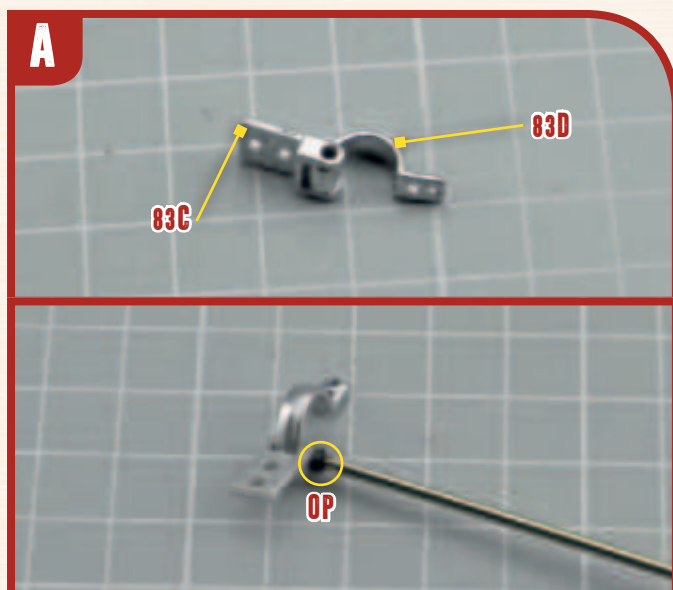
83F Oil tank hinge

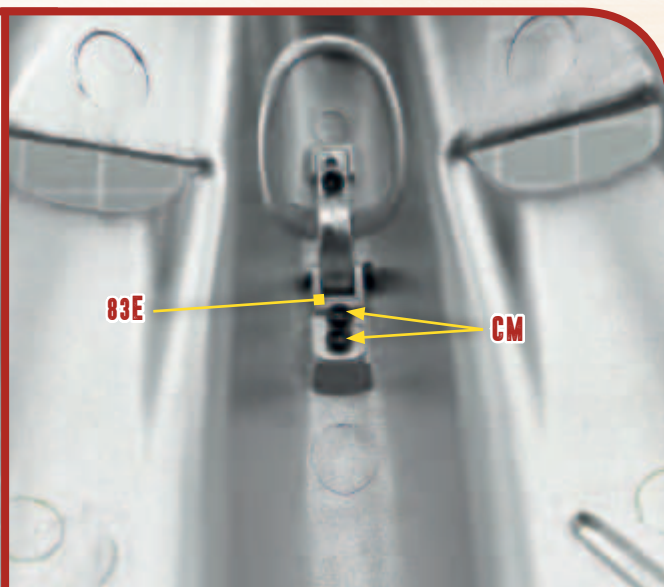
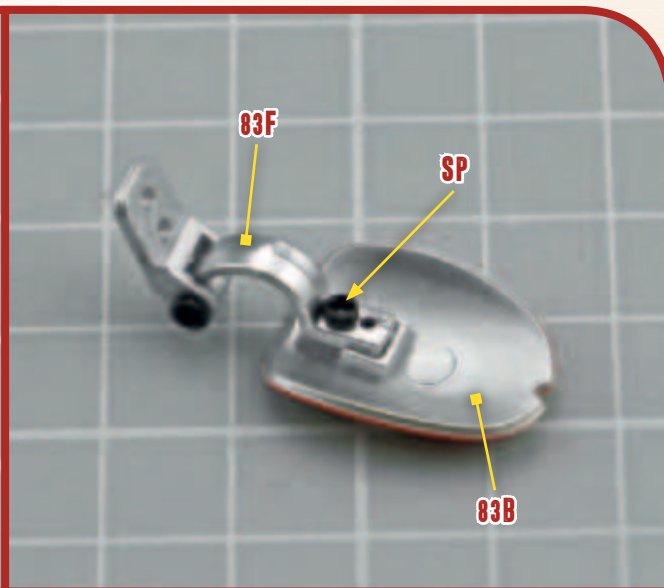
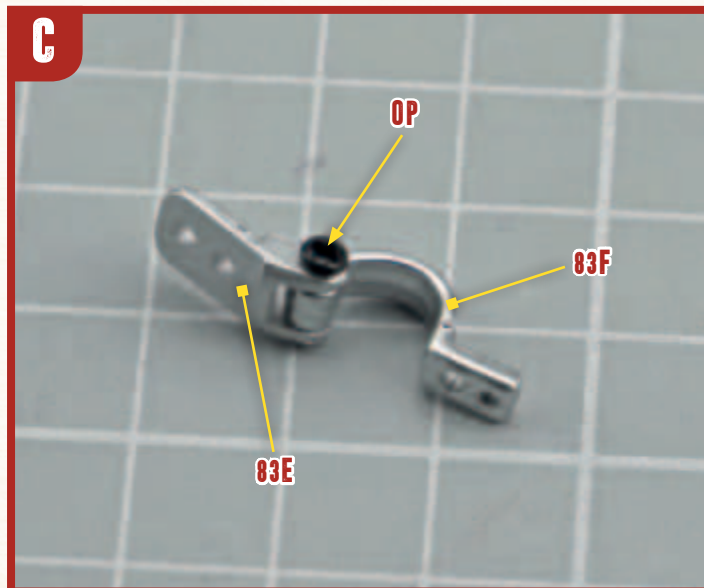
OP 3 screws (2x7mm)

SP 2 screws (1.5x4mm)

CM 6 screws (1.7x4mm)

ZM 8 screws (1.7x4mm)



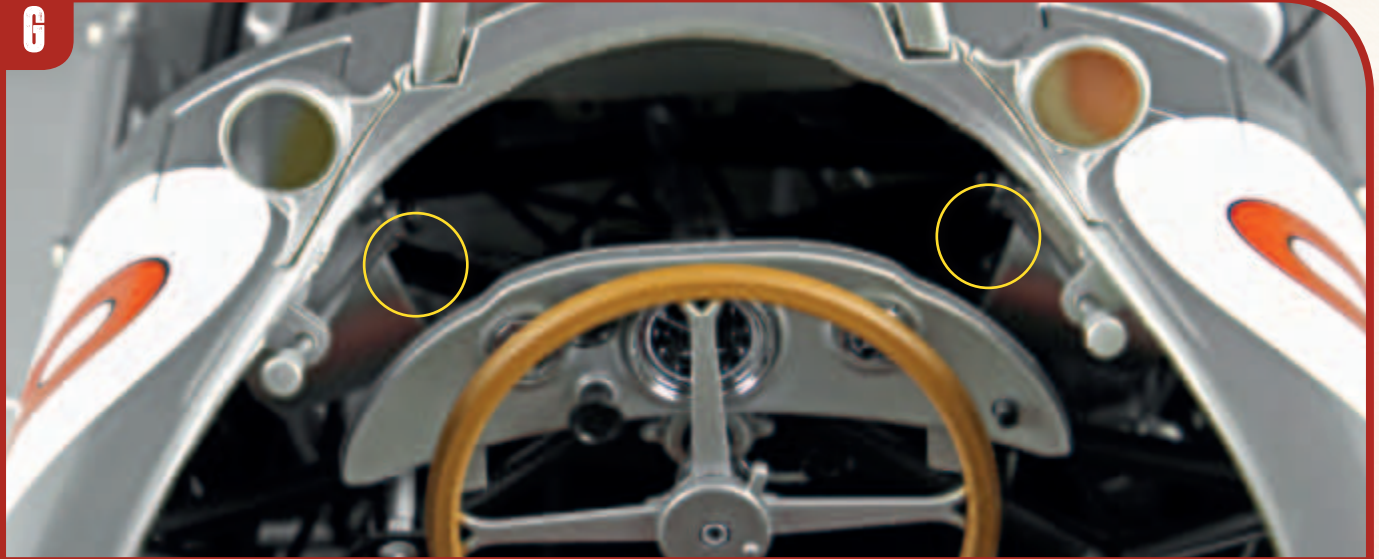


F

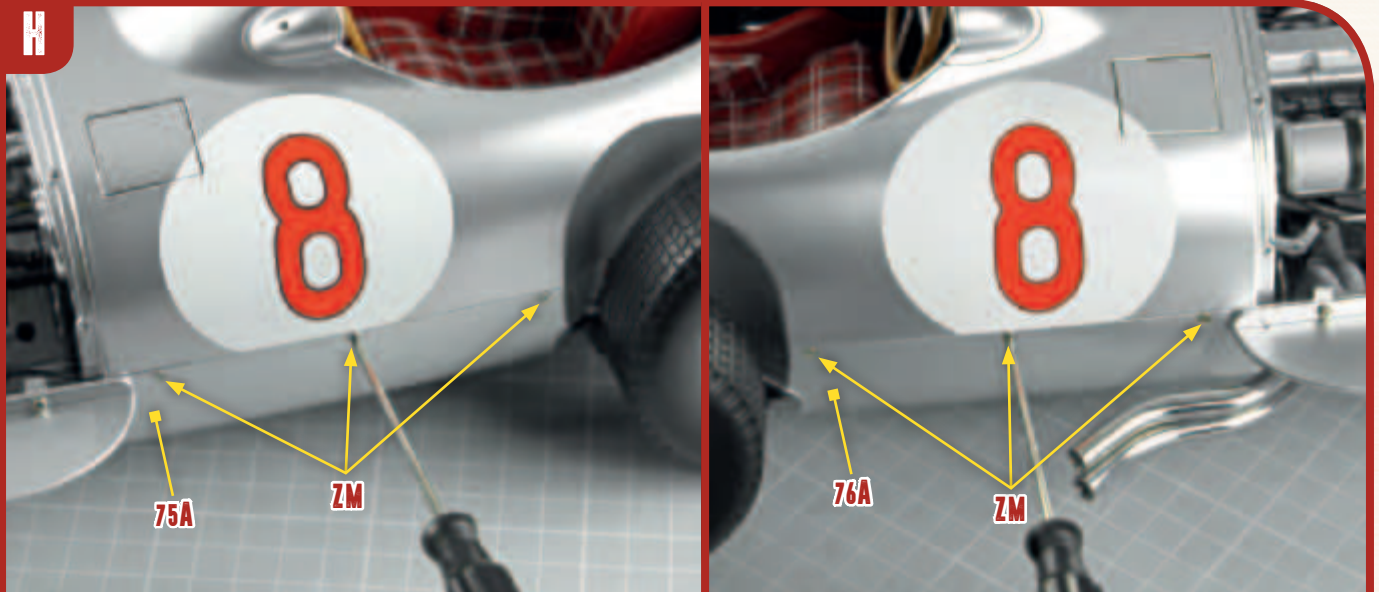
Mount body rear panel on chassis



G



H



84 PARTS LIST



84A Body front panel

84B Front right wheel arch panel

84C Mounting plate

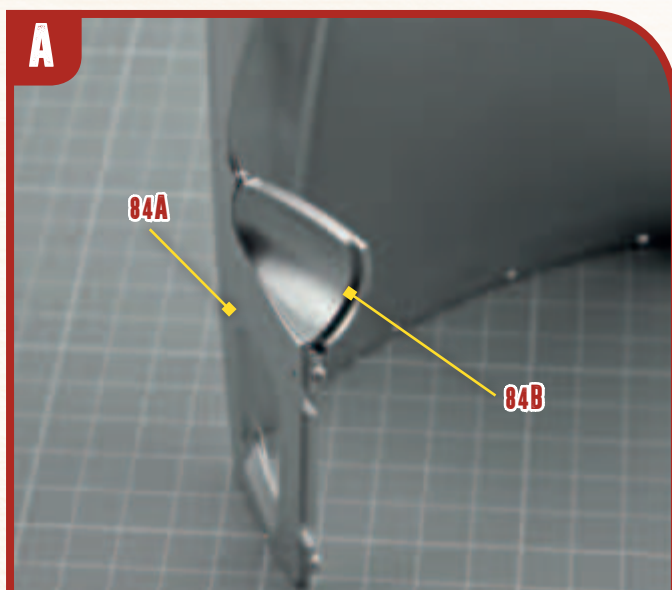
84D Fixing pin 1

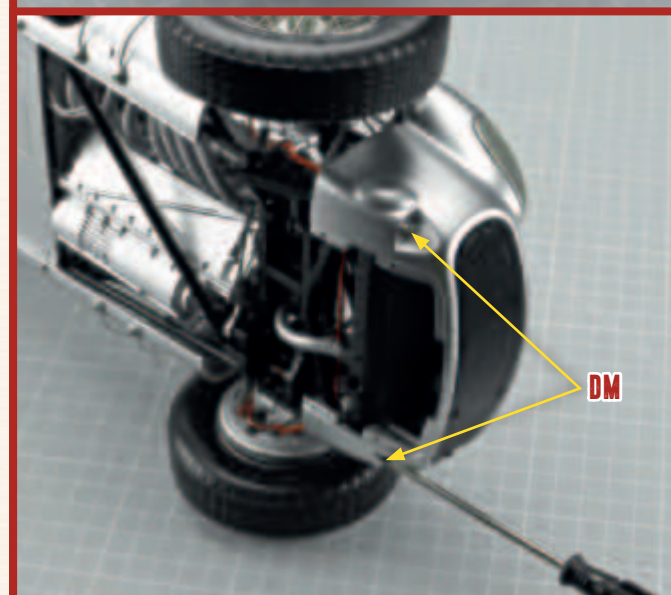
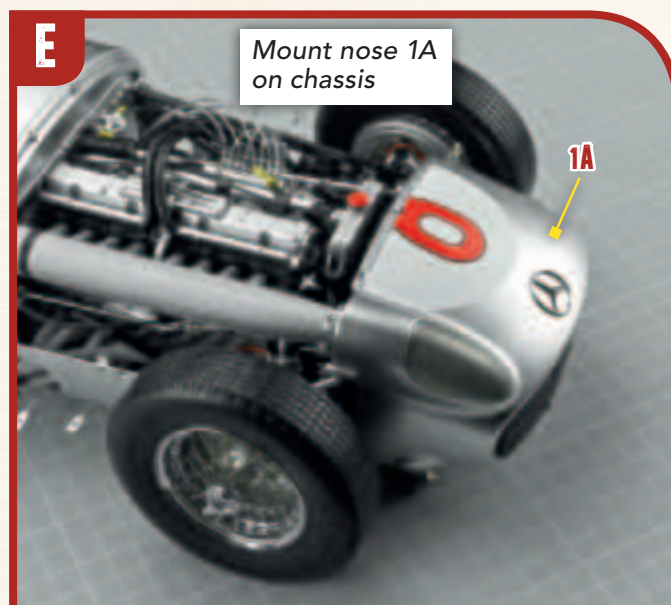
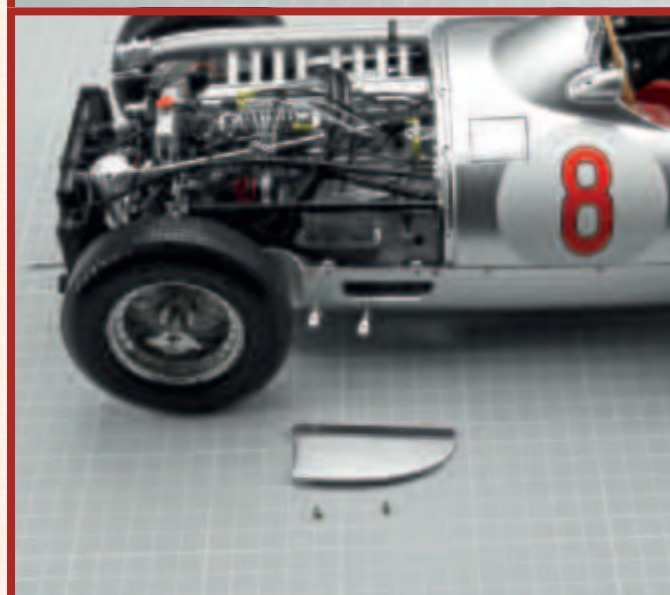
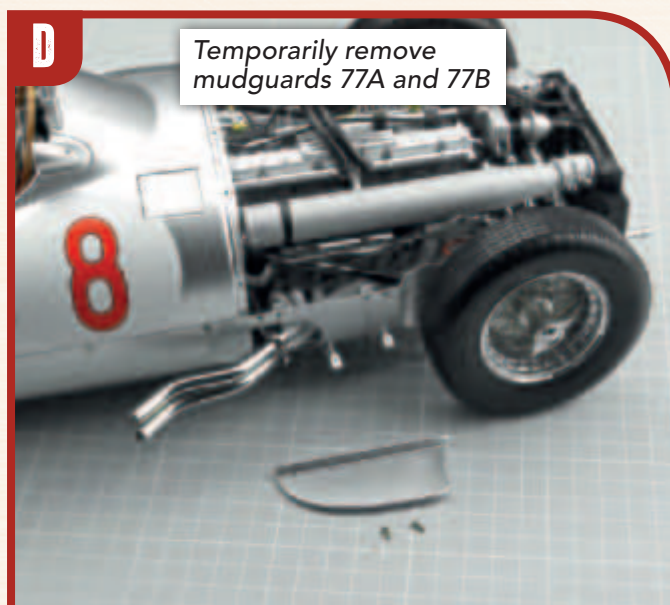
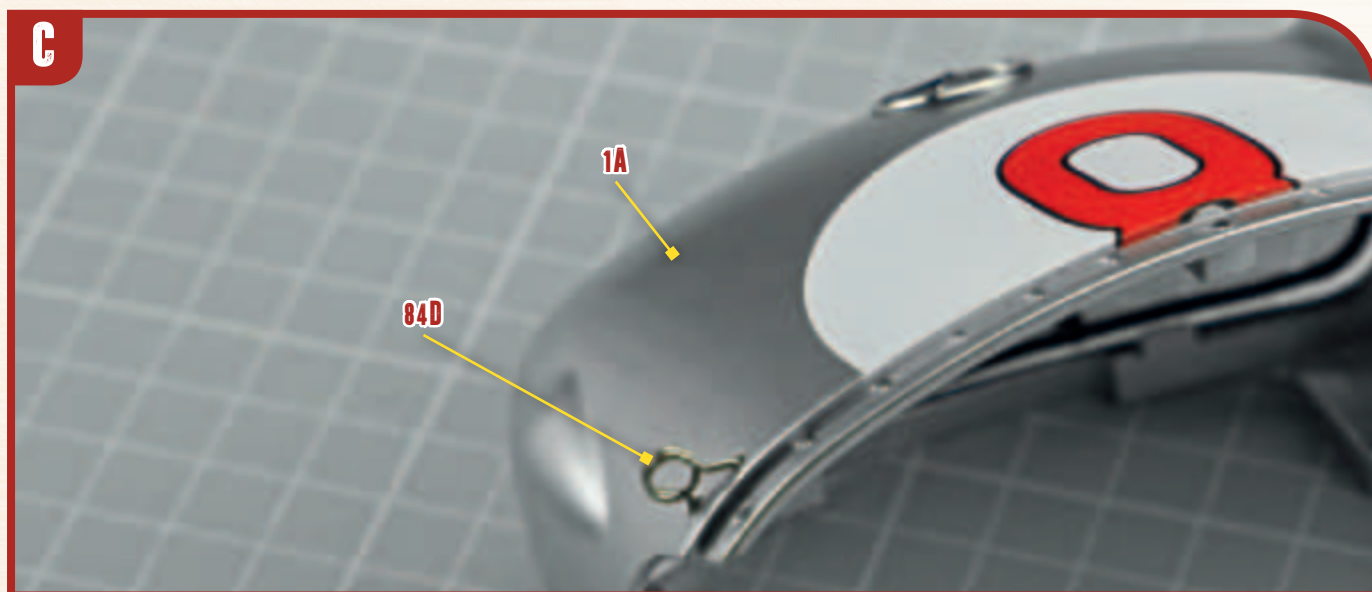
84E Fixing pins 2 (x4)

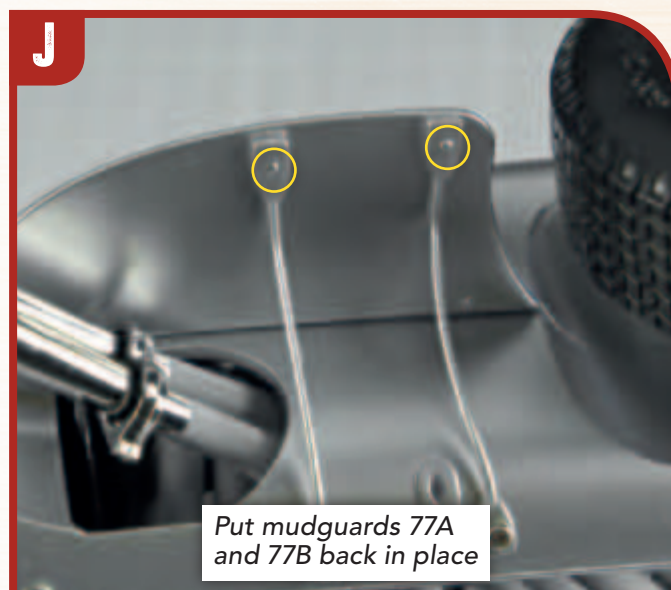
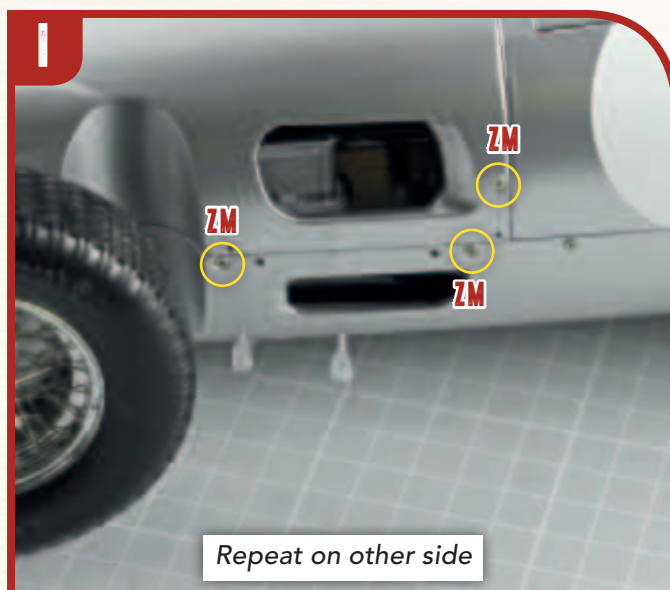
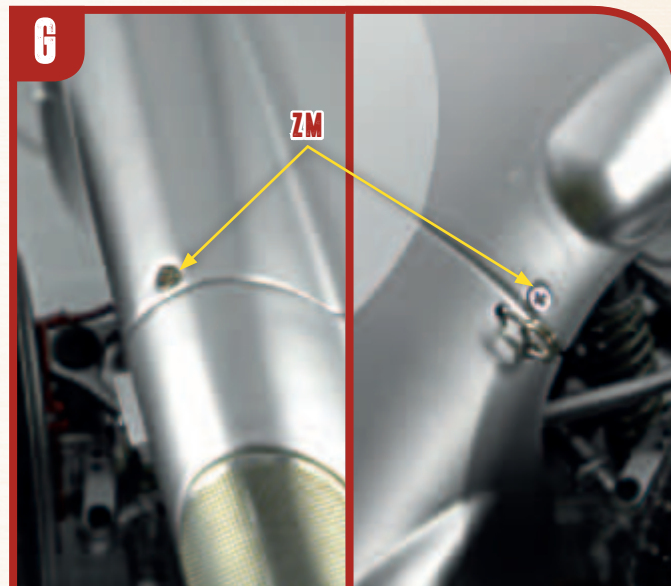
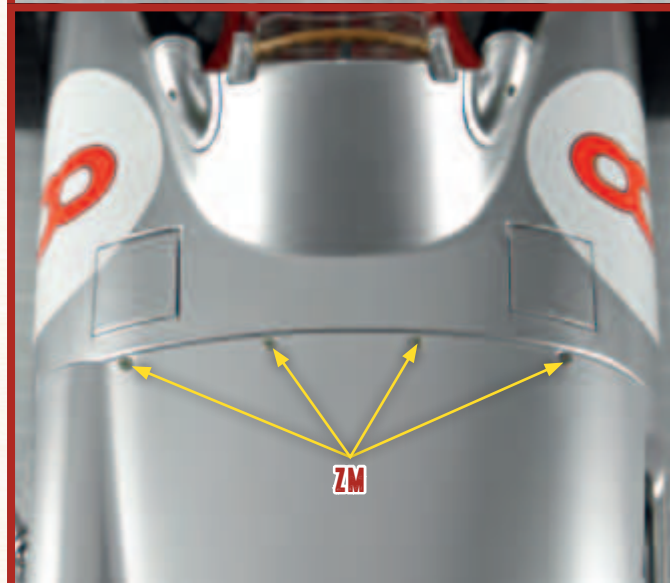
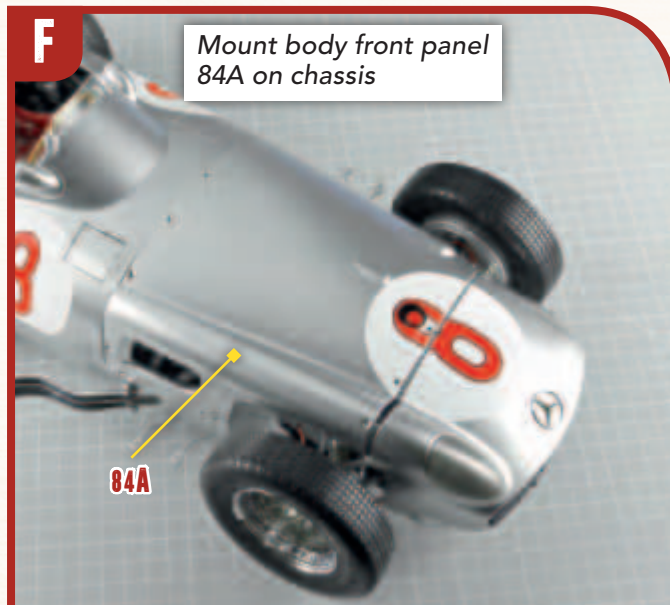
CM 5 screws (1.7x4mm)

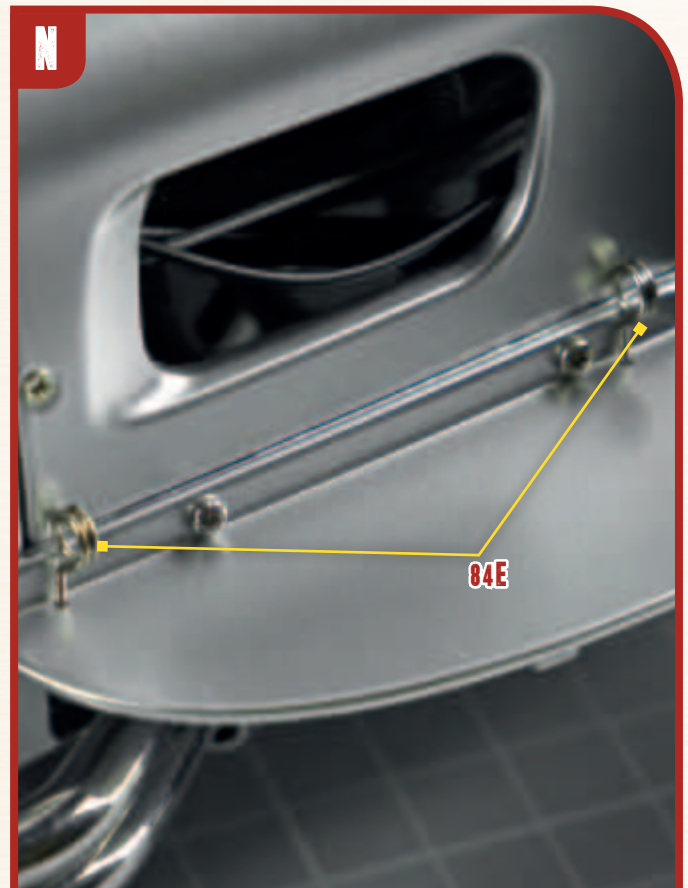
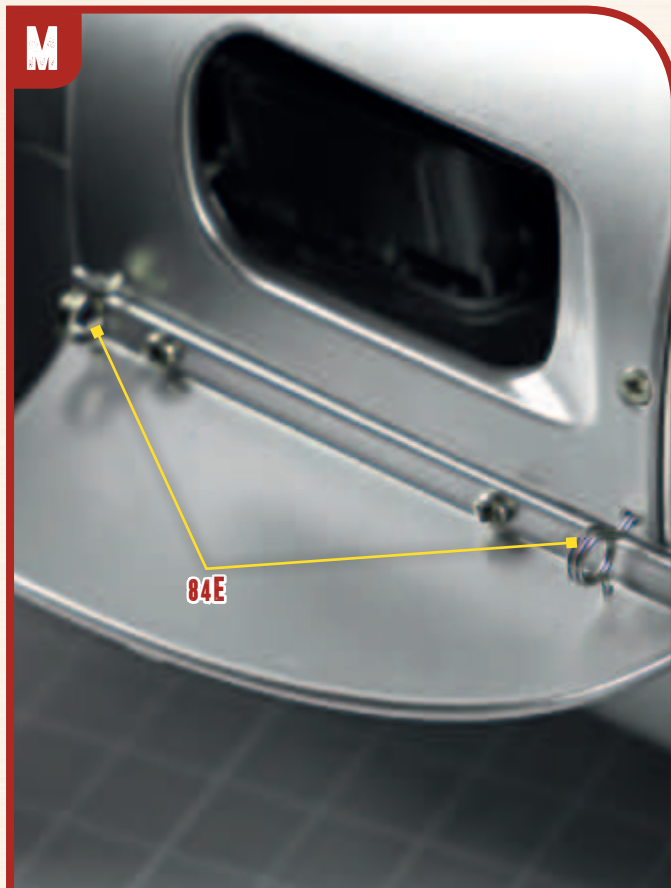
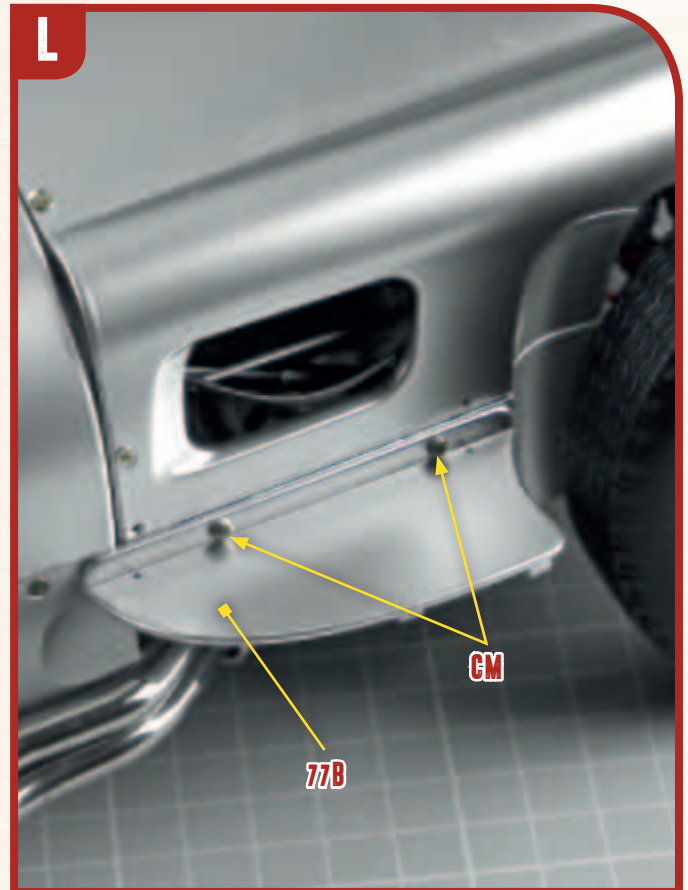
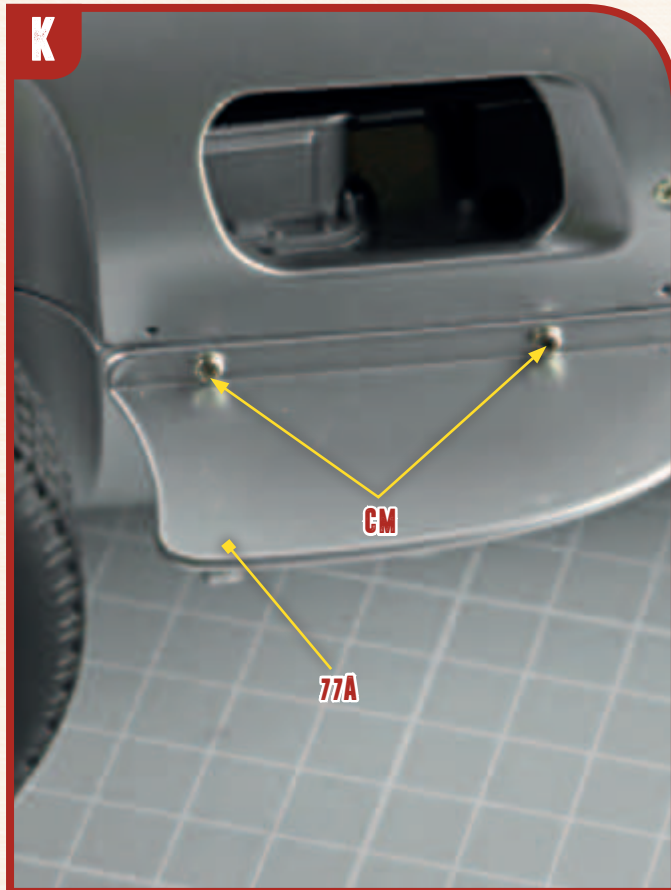
DM 4 screws (2x4mm)

ZM 18 screws (1.7x4mm)





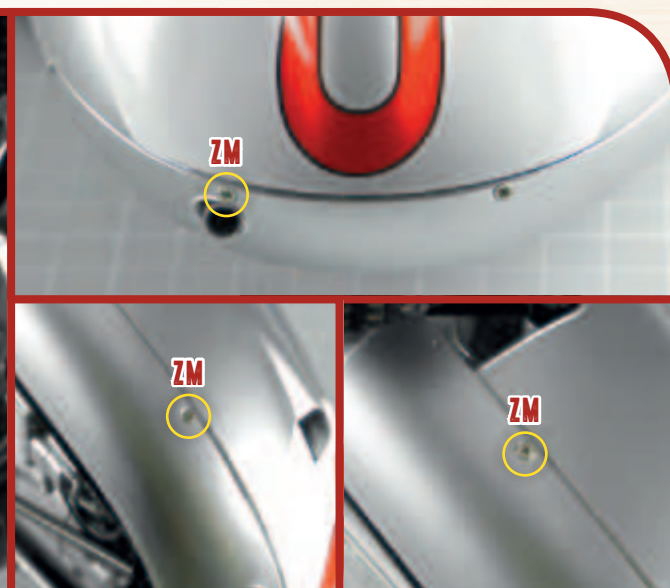
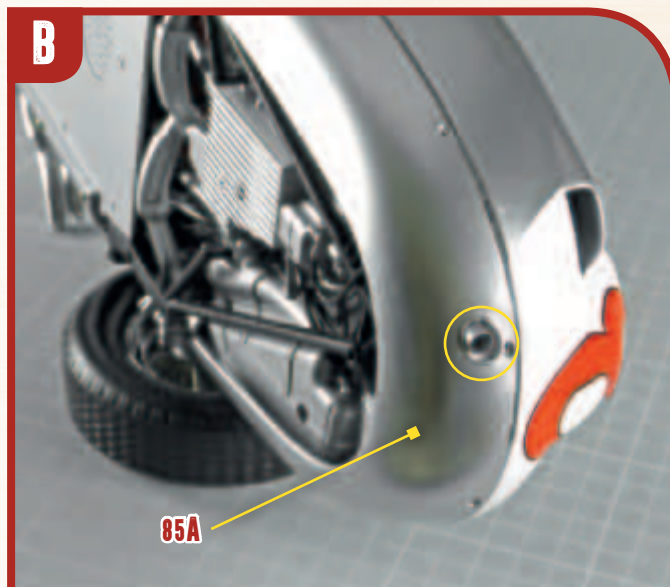
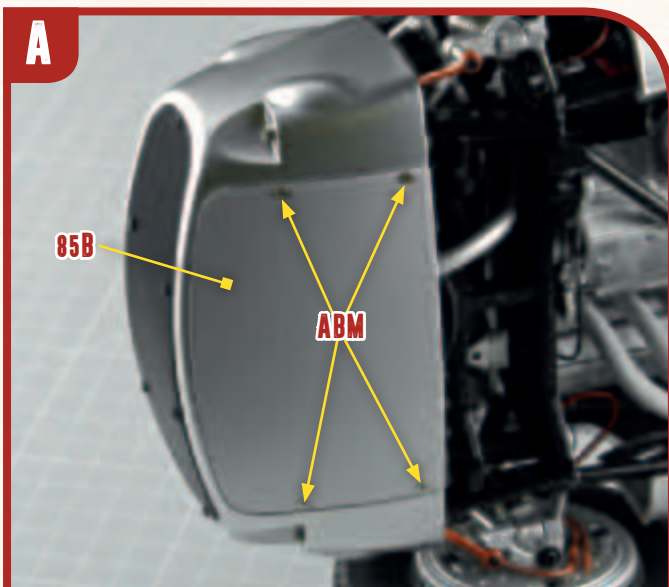




85 PARTS LIST

85A Rear bottom panel
85B Front bottom panel

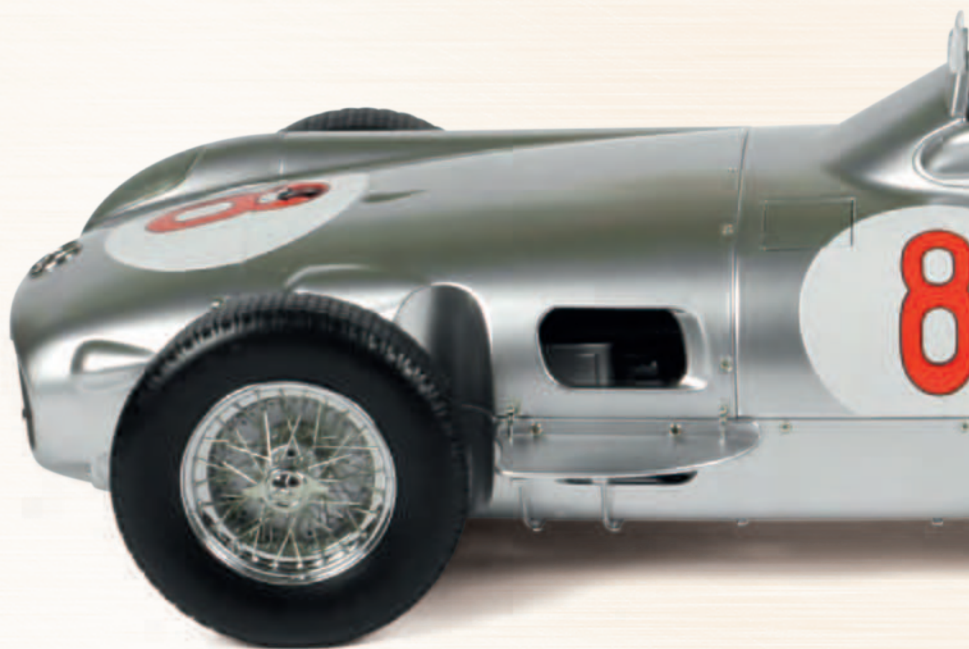
ABM 5 screws (1.7x5mm)
ZM 8 screws (1.7x4mm)













Kit details

Your Mercedes-Benz W 196 R full kit is broken down as follows:

PACK 1	#2, #4-11, #13
PACK 2	#14-26
PACK 3	#27-39
PACK 4	#40-47
PACK 5	#48-60
PACK 6	#61-68
PACK 7	#69-71
PACK 8a	#72-77, #79-83, #85
PACK 8b	#78
PACK 9	#1, #3, #12, #84





